

ONTARIO MINISTRY OF ENVIRONMENT
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THE
ONTARIO WATER RESOURCES
COMMISSION

REPORT ON THE
STATUS

of
INDUSTRIAL WASTE CONTROL AND DISPOSAL
in
ONTARIO

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REPORT ON THE STATUS
of

INDUSTRIAL WASTE CONTROL AND DISPOSAL
in

ONTARIO

December, 1964

by

F.R. Phoenix, B.A., M.C.I.C.

and

G.I. Macey, Engineer's Assistant

INDUSTRIAL WASTES BRANCH

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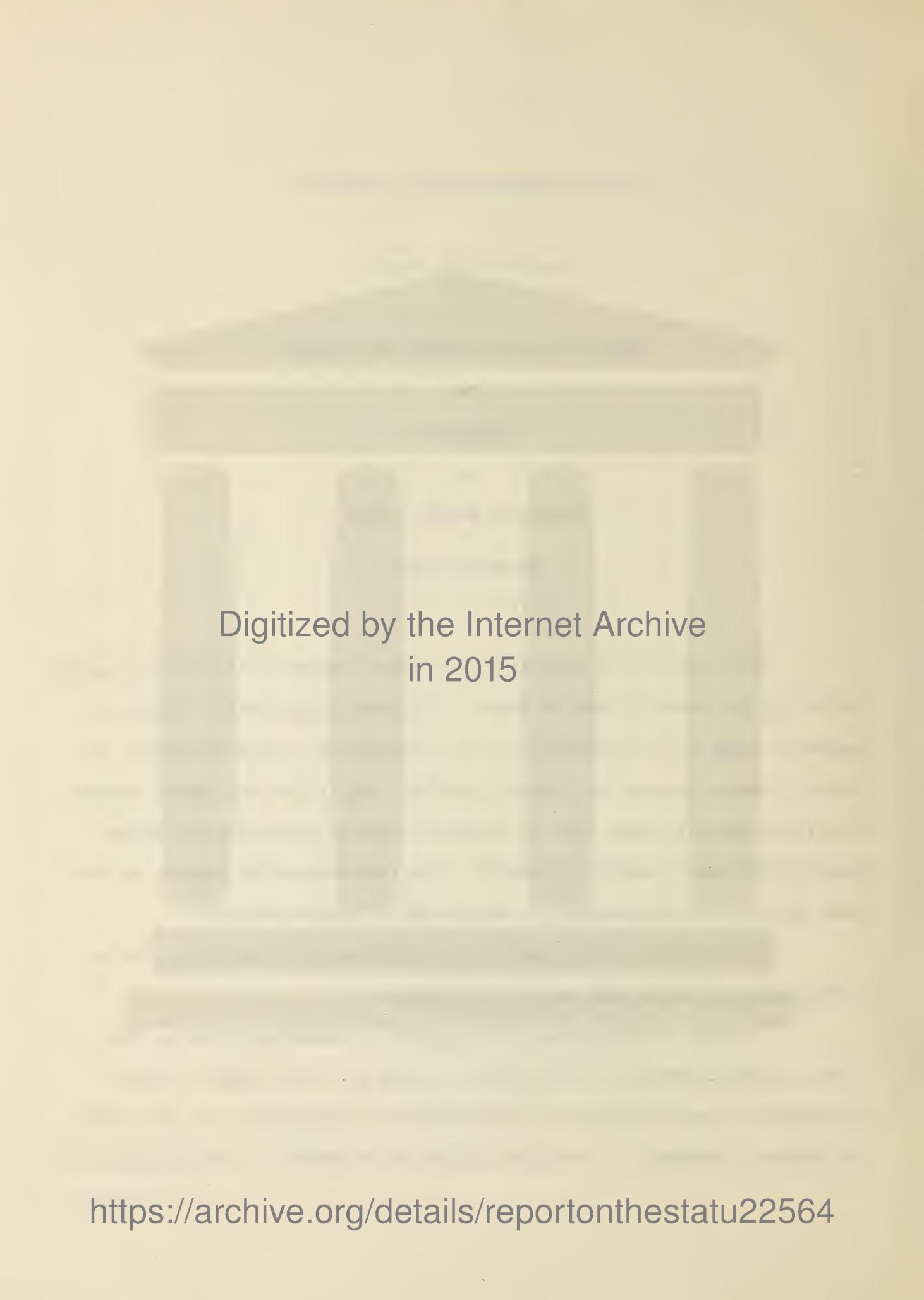
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This report is an extension of a former listing of industries prepared in 1963 by the Industrial Wastes Branch. The prime purpose was to enumerate companies under active consideration by the branch and to show the degree and nature of waste treatment or disposal provided. While the 1963 report covered over 1,400 separate firms, data on which are filed in the Industrial Wastes Branch, this report deals with some 900. The remainder either present no problems, are dry, are now defunct, or are handled by another division.

Not included in this report are industries under the direct control of Metropolitan Toronto and the City of Hamilton.

A number of tabulations were prepared to summarize the data. The first, a general summary for the whole province, gives the number of plants considered to have satisfactory or unsatisfactory arrangements. In this table, the numbers discharging to municipal facilities or directly to watercourses are

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given. A certain number are listed as "status unknown or uncertain". These are now being reviewed.

Another tabular summary gives a breakdown of the situation by type of industry.

It should be pointed out here that these tables can be misleading as one large industry on a particular watercourse, having an unsatisfactory method of waste disposal, could easily offset the efforts of several smaller firms giving adequate treatment before discharging to the same stream. The same reasoning would apply in the case of a municipal pollution control plant. Here, one large industry or one with unusually strong wastes could, in a small town, result in malfunction of the treatment processes. Waste loadings are much more significant than the numbers of industries having satisfactory or unsatisfactory forms of disposal. Estimation of waste loadings is outside the scope of this report.

SUMMARY

An analysis of the data showed that those types of industries currently requiring most attention are the pulp and paper, the chemical, and the mining and smelting industries. As the paper industry and mining are, for the most part, confined to Northern Ontario, it is this area in which the Industrial Wastes field staff should be most active. The chemical industries are concentrated along the St. Clair, Detroit and St. Lawrence rivers. This means that our forces should be deployed essentially along the boundary waters and in the North for perhaps the next eighteen months.

The program of pollution abatement set out for the paper industry by the Commission will involve considerable office work as well as field investigation. This activity, coupled with the work generated by the expanding

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chemical industry, will severely tax our present technical and clerical resources.

On the whole, less than one half of the firms considered have satisfactory forms of treatment and disposal. There is a great variation in the magnitude and complexity of the problems connected with adequate handling of industrial wastes. Solutions may be costly, and, in some cases, no feasible method may be presently available. However, all of these cases must be kept under constant regular review. Industrial pollution control is perhaps the phase of water conservation and quality maintenance requiring the most attention.

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Tabular Summary of Status For the Whole Province

<u>Districts</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Total</u>
<u>To Surface Waters:</u>					
Satisfactory	54	60	21	31	166
Unsatisfactory	99	101	38	73	311
Total	153	161	59	104	477
<u>To Municipal Facilities:</u>					
Satisfactory	53	74	19	26	172
Unsatisfactory	6	17	41	26	90
Total	59	91	60	52	262
<u>Land Disposal:</u>					
Satisfactory	5	8	1	2	16
Unsatisfactory	2	0	4	7	13
Total	7	8	5	9	29
<u>Status Unknown or Uncertain:</u>	40	40	21	11	112
Total (Satisfactory)			-	354	
Total (Unsatisfactory)			-	414	
Total (Status Unknown or Uncertain)			-	112	

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Tabular Summary by Classification of Industry

<u>Classification</u>	<u>Number</u>	<u>Municipal Facilities</u>	<u>Water-course</u>	<u>Land</u>	<u>Number Satisfactory</u>
Adhesives	2	0	2	0	0
Agricultural Chemicals	15	2	12	1	8
Automotive	11	3	8	0	3
Baking	2	2	0	0	2
Brewing	10	6	4	0	3
Building Products	18	2	15	1	12
Canning	23	5	17	1	6
Ceramic	16	3	13	0	13
Cheese	1	1	0	0	1
Chemical	47	7	40	0	19
Chemical Specialties	10	9	1	0	2
Dairy	29	13	12	4	15
Distilling	5	1	4	0	1
Electrical and Electronic	29	16	12	1	16
Food Process	41	15	26	0	16
Institution	2	1	1	0	1
Manufacturing	117	62	53	2	73
Meat Packing	37	16	17	4	12
Metal Refinishing	5	1	4	0	1
Metalworking	40	12	26	2	23
Metallurgical	9	1	8	0	4
Milling (Grain)	0	0	0	0	0
Mining	47	0	46	1	21

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Tabular Summary by Classification of Industry (cont'd)

<u>Classification</u>	<u>Number</u>	<u>Municipal Facilities</u>	<u>Water-course</u>	<u>Land</u>	<u>Number Satisfactory</u>
Nuclear (Atomic)	2	1	1	0	2
Paint	6	2	4	0	0
Paper Converting	7	4	3		
Petrochemical	0	0	0	0	0
Petroleum Refining	6	0	6	0	4
Pharmaceutical	7	1	6	0	4
Plating	50	20	28	2	13
Plastics	8	4	4	0	5
Pulp and Paper	33	0	33	0	1
Printing and Stationery	7	7	0	0	6
Rubber	11	6	5	0	9
Service	23	2	17	4	12
Smelting	7	0	6	1	5
Soft Drinks	8	3	4	1	3
Tanning	16	9	5	2	4
Textiles	51	23	27	1	24
Vegetable Oil	1	0	1	0	0
Wine	5	1	3	1	3
Woodworking	<u>4</u>	<u>1</u>	<u>3</u>	<u>0</u>	<u>3</u>
Totals	768	262	477	29	354

Percent Satisfactory - 46

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DISCUSSION OF THE SITUATION

On reviewing the data, it appears that about one half of the producers of agricultural chemicals, i.e., fertilizers, insecticides, herbicides, etc., have unsatisfactory treatment and disposal procedures. These are not particularly serious sources of pollution with the possible exception of one pesticide manufacturer. It is expected this one exception will be brought under control in 1965. The others, which contribute enrichment to water, will be the subject of continual investigation.

Many of the building products firms discharge inorganic solids which are relatively easy to separate from the waste water. These companies are being investigated also. One, which uses phenolic type binders in insulation products, is currently preparing a proposal for the elimination of this phenolic constituent from the effluents.

About seventy-five percent of our chemical industries, the petro-chemical, organic chemical, heavy and basic chemical plants do not provide adequate treatment or disposal. A number of factors are involved here. These are large users of water. Many are located on our major rivers and lakes. Because of the huge volumes of water utilized, separation of waste constituents is difficult. When many of these plants were built, no treatment other than dilution in the receiving stream was contemplated. This is no longer acceptable in many cases, and these firms are now faced with segregation and treatment at the source of the various waste streams. The petroleum refiners as a whole are notable exceptions, as this industry has lead the way in providing for the removal of phenols, sulphides and oils from the waste waters. In the case of the heavy chemical group, some contaminants are inherent in the processes and

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these companies have been a little reluctant to tackle a difficult, but not wholly insoluble, problem.

Manufacturing, as a whole, is not too much cause for concern, as the firms are not large users of water and are usually located in centres of population served with adequate municipal facilities.

Many of our meat packing and allied plants are discharging directly to watercourses with very little pretreatment. An equal number discharge strong wastes to municipal facilities. Fortunately, most of the larger producers are located in municipalities which can provide treatment. Because of the relatively high waste loadings contributed by this type of industry, it has been under study by the Industrial Wastes Branch for some time.

The wastes from metalworking, finishing and plating operations are not usually well-handled. One reason is ignorance on the part of the management and the technical staff regarding waste control and treatment. Many of the firms are small and anything other than the most rudimentary facilities represents a large outlay.

Mining and metal refining and smelting all present difficult problems. Tailings, mine water, fumes, etc., are all difficult wastes to control. Here again, application to the solution of the problem will undoubtedly bring about improvement. Most of the immediate problems confronting the branch are found in the Elliot Lake and Sudbury areas.

Brewing, distilling and the fermentation industries are all sources of strong wastes. Not only do these wastes have high suspended solids content and Biochemical Oxygen Demand, but they often contain large amounts of caustic which is used in cleaning equipment. Such caustic or alkaline wastes have proven to be extremely deleterious in municipal treatment facilities. Now that this has

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been established, the industries are being asked to neutralize and control these wastes.

Some of our largest basic industries, the metallurgical plants, are very large users of water and discharge correspondingly large quantities of wastes. In steel mill wastes, much of the contamination is in solid form, such as mill scale dust, etc. Spent pickle liquor, a solution of iron sulphate and sulphuric acid, is discharged when it will no longer perform its function of preparing metal surfaces for galvanizing or tinning. Ancillary facilities, such as the coke ovens, produce strong ammoniacal phenolic wastes which also contain cyanides. All of the steel mills in Ontario provide some degree of treatment and are committed to long-range programs of pollution control and abatement. The problems have been defined and it is expected major improvements in effluent quality will be effected in the next five years.

Although extensive treatment and control have been effected at the tanneries, wastes from this industry as a whole have not been well-handled. They are high in suspended solids and dissolved materials and are not readily treated by biological methods. Most tanneries are old and the layout such that segregation and redirection of sewers is not easily accomplished. However, with a certain amount of pretreatment such as blending, screening or settling, the wastes can be accepted into municipal facilities. This, of course, depends on the relative volumes and strength of the domestic and pretreated tannery wastes. Wherever possible, this is the recommended course of action and in larger towns has proven satisfactory.

The industry of greatest concern and of the greatest magnitude is the pulp and paper industry. In the past, the mills located of necessity on

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large bodies of water gave little thought to pollution control per se. Most of the efforts, which resulted in reduction of loadings, were primarily directed to the recovery of product losses or usable by-products. The waste loadings were enormous; in fact, they exceeded the domestic loadings contributed by the whole provincial population. Bark and other solids, waste sulphite liquor, spilled pulp and pulp bleaching wastes are the most significant forms of pollution.

Of some forty-one pulp and paper mills and allied industries, only one can be considered to have completely adequate waste treatment. Some have some degree of control, but, for the most part, are far from satisfactory. The Commission, realizing that in-plant controls cannot achieve the desired effluent quality, has now asked all pulp, paper and allied companies to present proposals this year for primary effluent treatment to be installed by the end of 1966, and to plan for complete waste control within the next five years.

There are many minor and individual problems which are under constant review.

REMARKS

It is considered by the staff of the Industrial Wastes Branch that the classes of industry requiring most attention could be listed in order of importance as follows:

1. Pulp and paper
2. Metallurgical, mining, and smelting
3. Chemical - organic, heavy, agricultural
4. Food processing and tanneries
5. Metalworking and finishing (plating)
6. Meat packing and allied industries

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As most of the large pulp and paper mills in Ontario are located in the northern part of the province, it follows that the Commission's efforts must be intensified in this area if the Commission's objectives are to be met. A larger proportion of the Industrial Wastes field staff would need to be deployed in the north. As a result of the Commission's recent pronouncement to the paper industry, there will undoubtedly be many submissions concerning plans for waste treatment and disposal. This will necessitate the full-time utilization of some staff in the office as well as the participation of the field personnel.

In the metallurgical field, steel mills are located in three areas, namely, Sault Ste. Marie, Hamilton and Welland. All of the mills have pollution abatement programmes and the work required consists mainly of assessment of the various phases and follow-up.

Mining is concentrated in the Laurentian Shield which includes most of Northwestern, Northeastern and North Central Ontario. The Sudbury and Elliot Lake areas require the most attention.

Ontario's chemical industry is expanding rapidly. It is estimated that production will increase about 7 percent in 1965. This will result partly from the construction of new plants and facilities valued at more than 175 millions of dollars. These new plants present new problems in waste treatment and disposal. As the large river systems provide the most desirable locations for chemical industries, efforts should be concentrated in three main areas. These are the St. Clair River area, the Detroit River area and along the north shore of eastern Lake Ontario and the St. Lawrence River.

The other classes of industry are, for the most part, distributed over Southern Ontario. There are a number of serious problems, but, in general,

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the problems usually encountered involve less extensive investigations than the major industries.

It has been demonstrated in many municipal industrial wastes surveys that industrial pollution greatly exceeds that attributable to domestic sewage. With control of domestic pollution well in hand, the major task now facing the Commission, in this field, is the reduction or elimination of industrial water pollution.

Report by:

F.R. Phoenix
F.R. Phoenix, B.A., M.C.I.C.,
Assistant Supervisor,
Division of Industrial Wastes.

and

G.I. Macey
G.I. Macey,
Engineer's Assistant,
Division of Industrial Wastes.

Approved by:

R.H. Millest
R.H. Millest, P.Eng.,
Director,
Division of Industrial Wastes.

APPENDIX

DEFINITION OF PRESENT DISTRICTS

DISTRICT 1 and 1A	DISTRICT 2 and 2A	DISTRICT 3 and 3A	DISTRICT 4 and 4A
Brant	Algoma	Cochrane	Carleton
Elgin	Bruce	Dufferin	Dundas
Essex	Huron	Grey	Durham
Kenora	Haldimand	Halton	Frontenac
Kent	Lincoln	Muskoka	Glengarry
Lambton	Perth	Nipissing	Grenville
Middlesex	Sudbury	Parry Sound	Haliburton
Norfolk	Waterloo	Peel	Hastings
Oxford	Welland	Simcoe	Leeds
Rainy River	Wellington	Timiskaming	Lennox and Addington
Thunder Bay	Wentworth	York	Northumberland
			Ontario
			Peterborough
			Prescott
			Prince Edward
			Russell
			Renfrew
			Stormont
			Victoria

District Number I - General Summary

	<u>Satisfactory</u>	<u>Unsatisfactory</u>	<u>Total</u>
To Surface Waters	54	99	153
To Municipal Facilities	53	6	59
Land Disposal	5	2	7
Status Unknown	—	—	40
Total	112	107	259

SUMMARY OF DISTRICT NUMBER 1
Industries Discharging to Surface Waters

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment		
		U	U.R.	S	None	Partial	Complete	S	U.S.	% S.
Adhesives	1	0	1	0	0	1	0	0	1	0 %
Agricultural Chemicals	4	3	0	1	2	1	1	2	2	50 %
Automotive	4	4	0	0	0	4	0	0	4	0 %
Brewing	2	2	0	0	2	0	0	0	2	0 %
Building Products	3	2	1	0	2	1	0	1	2	33 %
Canning	4	1	3	0	3	1	0	0	4	0 %
Ceramic	3	2	0	1	2	0	1	3	0	100 %
Chemical	11	3	8	0	2	5	4	5	6	45.5 %
Dairy	6	6	0	0	6	0	0	0	6	0 %
Distilling	2	2	0	0	1	1	0	0	2	0 %
Electrical Electronic	1	0	1	0	0	0	1	0	1	0 %
Food Process	8	7	1	0	6	2	0	2	6	25 %
Manufacturing	29	27	2	0	25	2	2	17	12	58.6 %
Meat Packing	7	5	2	0	1	6	0	1	6	1.4 %
Metal Working	7	7	0	0	4	3	0	5	2	71.4 %
Mining	14	11	3	0	2	5	7	7	7	50 %
Paint	4	4	0	0	3	1	0	0	4	0 %
Paper Converting	1	1	0	0	1	0	0	1	0	0 %
Petroleum	5	2	3	0	1	3	1	3	2	60 %
Pharmaceutical	5	4	1	0	4	1	0	2	3	40 %

SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment		
		U	U.R	S	None	Partial	Complete	S	U.S	% S.
Plating	11	1	10	0	8	2	1	1	1.0	9 %
Plastics	1	1	0	0	1	0	0	1	0	100 %
Pulp and Paper	10	1	9	0	0	10	0	0	10	0 %
Service	1	1	0	0	1	0	0	1	0	100 %
Soft Drinks	2	2	0	0	2	0	0	0	2	0 %
Textiles	5	5	0	0	2	2	1	2	3	40 %
Woodworking	2	1	1	0	2	0	0	1	1	50 %
TOTALS	153	105	46	2	83	51	19	54	99	35.2 %

Abbreviations:

U = Unknown

U.R = Under Review

S = Satisfactory

U.S = Unsatisfactory

Industries Discharging to Surface Waters

SUMMARY OF DISTRICT NUMBER 1

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Adhesives	Canada Glue Co.	Brantford	U.R	Grand River	Partial	U.S
Agricultural Chemicals	Canadian Industries Ltd.	Chatham	U	McGregors Creek	Partial	U.S
	Canadian Industries Ltd.	Ingersoll	S	Thames River	Complete	S
	Canadian Swift Co.	Thamesville	U	Thames River	None	U.S
Automotive	Chrysler Corp. Can.	Windsor	U	Detroit River	Partial	U.S
	Ford Motor Co.	Windsor	U	Detroit River	Partial	U.S
	General Motors Corp.	Windsor	U	Detroit River	Partial	U.S
	Kelsey Wheel Co.	Windsor	U	Detroit River	Partial	U.S
Brewing	Carling Breweries Ltd.	Windsor	U	Detroit River	None	U.S
	John Labatt	London	U	Thames River	None	U.S
Building Products	Domtar Chemicals	Beachville	U	Grand River	None	S
	Canada Cement Co.	W. Zorra Twp	U	Thames River	None	U.S
	Waterford Sand and Gravel	Waterford	U	Nanticoke Creek	Partial	S
	Fiberglas Canada	Sarnia	U.R	St. Clair River	None	U.S
Canning	Campbell Soup	Chatham	U.R	Thames River	None	U.S
	Culverhouse Canning	Port Dover	U	Lake Erie	Partial	U.S
	Libby McNeil and Libby	Chatham	U.R	Thames River	None	U.S
	Libby McNeil and Libby	Wallaceburg	U.R	Sydenham River	None	U.S
Ceramic	Cabot Carbon Can.	Sarnia	U	St. Clair River	None	S
	Dominion Glass Co.	Wallaceburg	S	Sydenham River	None	S
	Globe Glass Saturates	Petrolia	U	Sydenham River	Complete	S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Chemical	Allied Chemical	Corunna	U.R	St. Clair River	None	U.S
	Atlas Powder	Brantford	U.R	Grand River	Partial	U.S
	Dow Chemical	Sarnia	U.R	St. Clair River	Partial	U.S
	Dryden Chemical	Dryden	U	Wabigoon River	Partial	U.S
	Dupont of Canada	Corunna	U.R	St. Clair River	Complete	S
	Ethyl Corp. Canada	Corunna	U.R	St. Clair River	Complete	S
	H.C. Nelson Chemical	Windsor	U	Detroit River	None	U.S
	Nichols Chemical	Port Arthur	U	Lake Superior	Complete	S
	Polymer Corp.	Sarnia	U.R	St. Clair River	Partial	S
	Wyandotte Chemical	Sandwich W.	U.R	Detroit River	Complete	S
	Brunner Mond of Canada	Amherstburg	U.R	St. Clair River	Partial	U.S
	Borden Company	Tillsonburg	U	Otter Creek	None	U.S
Dairy	Borden Company	Windsor	U	Detroit River	None	U.S
	Lambton Creamery	Petrolia	U	Sydenham River	None	U.S
	Purity Dairies	Windsor	U	Detroit River	None	U.S
	Silverwood Dairies	Windsor	U	Detroit River	None	U.S
	Twin Pines Dairy Ltd.	Windsor	U	Detroit River	None	U.S
Distilling	Calvert Distillery	Amherstburg	U	St. Clair River	Partial	U.S
	Hiram Walker	Windsor	U	Detroit River	None	U.S
	Electrical Electronic	Northern Electric Co.	U.R	Dingmans Creek	Complete	U.S
		Westminster Twp.				

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Food Process	Canada-Dominion Sugar	Chatham	U.R	Thames River	Partial	U.S
	General Foods Ltd.	Windsor	U	Detroit River	None	U.S
	Dover Fishermans Co-Op	Port Dover	U	Lynn River	None	U.S
	Graham Food Products	Colchester	U	Lake Erie	Partial	U.S
	Krunchee Potato Chips	Windsor	U	Detroit River	None	S
	Ogilvie Flour Mills	Fort William	U	Kaministiquia R.	None	U.S
	Oriental Commerce	Windsor	U	Detroit River	None	U.S
	Wonder Bakeries	Windsor	U	Detroit River	None	S
Manufacturing	American Standard Prods.	Windsor	U	Detroit River	None	S
	Banner Metal Products	Windsor	U	Detroit River	None	S
	Brant Engineering and Tool	Brantford	U	Grand River	Partial	S
	Butcher Engineering Enterp.	Windsor	U	Detroit River	Partial	U.S
	Burroughs Machines Ltd.	Windsor	U	Detroit River	None	U.S
	Canadian Bridge Works	Windsor	U	Detroit River	None	U.S
	Champion Spark Plug Co.	Windsor	U	Detroit River	None	U.S
	Daymond Co. Ltd.	Chatham	U	Thames River	None	U.S
	Delhi Industries Ltd.	Delhi	U	Big Creek	None	U.S
	Delhi Metal Products	Delhi	U	Big Creek	None	S
	Detroit Gasket Co.	Petrolia	U	Sydenham River	None	S
	Duplate Canada Ltd.	Windsor	U	Detroit River	None	S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Manufacturing (cont'd)	Electroline Manuf. Co.	Windsor	U	Detroit River	None	S
	Esesco Stamping Products	Windsor	U	Detroit River	None	S
	Essex Wire Corp.	Windsor	U	Detroit River	None	S
	General Fire Extinguisher	Windsor	U	Detroit River	None	S
	General Steel Wares	London	U	Thames River	None	S
	Ingersoll Machine and Tool	Ingersoll	U.R	Thames River	Complete	S
	Karco Co. Ltd.	Windsor	U	Detroit River	None	S
	McCord Corp.	Windsor	U	Detroit River	None	S
	Ontario Steel Products	Chatham	U.R	Thames River	None	U.S
	Standard Products Can.	Windsor	U	Detroit River	None	S
	Steel Co. of Canada	Brantford	U	Grand River	None	S
	Toledo Scale Co.	Windsor	U	Detroit River	None	S
	Universal Button Co.	Windsor	U	Detroit River	None	U.S
	Weatherhead Co. Ltd.	St. Thomas	U	Kettle Creek	None	S
	West, Taylor Bickle Co.	Norwich	U	Big Otter Creek	Complete	S
	Minnesota Mining and Mfg.	London Twp.	U	Thames River	None	S
	Canada Sand Papers	Plattsburgh	U	Nith River	None	U.S
	Darling Co. Canada	Chatham	U.R	McGregors Creek	Partial	U.S
	Bremner Packers	Windsor	U	Detroit River	None	S
	Essex Packers	Windsor	U	Detroit River	Partial	U.S
	Kolbe, W.F., Ltd.	Port Dover	U	Lynn River	Partial	U.S
	Lenover Bros.	Chatham	U	McGregors Creek	Partial	U.S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Meat Packing (cont'd)	Thames Valley Poultry	Chatham	U.R.	Thames River	Partial	U.S
	Windsor Packing	Windsor	U	Detroit River	Partial	U.S
Metalworking	Astlett, H.A., Co. Ltd.	St. Thomas	U	Kettle Creek	None	S
	Bendix Eclipse Can. Ltd.	Windsor	U	Detroit River	None	U.S
	Border City Wire and Iron	Windsor	U	Detroit River	None	S
	Colonial Tool Co.	Windsor	U	Detroit River	None	S
	Dominion Forge Ltd.	Windsor	U	Detroit River	Partial	S
	Truscan Steel Co.	Windsor	U	Detroit River	Partial	U.S
	Timberland Machines Ltd.	Woodstock	U	Thames River	Partial	S
Mining	Associated Arcadia Nickel	Worthington	U	Rainy River	Partial	U.S
	Campbell Red Lake Mines	Balmerton	U	Red Lake	Partial	U.S
	Caland Ore Co. Ltd.	Atikokan Twp	U	Atikokan River	Complete	S
	Canadian Salt Co.	Windsor	U	Detroit River	None	U.S
	Cochenour Williams, G.M.	Red Lake	U.R.	Red Lake	Complete	S
	Consolidated Mosher Mines	Geraldton	U	Kenogami River	Complete	S
	Dickenson Mines Ltd.	Balmerton	U	Balmer Lake	Partial	U.S
	Geco Mines Ltd.	Manitouwadge	U	Black River	Complete	S
	McKenzie Red Lake R.M.	Red Lake	U.R.	Red Lake	Partial	U.S
	Nickel Mining and Smelting	Kenna	U	Gordon Lake	None	U.S
	Madsen Red Lake G.M.	Red Lake	U	Red Lake	Complete	S
	Sapane Gold Mines Ltd.	McCaul Twp.	U	Osinawi Lake	Partial	U.S
	Steep Rock Iron Mines	Atikokan	U.R.	Siene R., Rainy L. Complete	S	
	Wilroy Mines Ltd.	Manitouwadge	U	Slim Lake	Complete	S

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SUMMARY OF DISTRICT NUMBER 1Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Paint	Alma Paint and Varnish	London	U	Thames River	Partial	U.S
	Canadian Pittsburg Ind.	Windsor	U	Detroit River	None	U.S
	Northern Resins and Chem.	Petrolia	U	Sydenham River	None	U.S
	Rinshed Mason Canada	Windsor	U	Detroit River	None	U.S
Paper Converting	Sonoco Products of Canada	Brantford	U	Brantford Canal	None	U.S
Petroleum Refining	Husky Oil Refining Co.	Ft. William	U	McKellar River	Partial	U.S
	Imperial Oil Enterprises	Sarnia	U.R	St. Clair River	Partial	S
	Petrolia Field Oil Wells	Petrolia	U	Bear Creek	None	U.S
	Shell Canada Ltd.	Sarnia	U.R	St. Clair River	Partial	S
	Sun Oil Co. Ltd.	Sarnia	U.R	St. Clair River	Complete	S
Pharmaceutical	Norwich Pharmacal	Paris	U.R	Grand River	None	U.S
	Jamieson Co. (Dominion) Ltd.	Windsor	U	Detroit River	None	S
	Salisbury's Laboratories	Woodstock	U	Cedar Creek	Partial	U.S
	Scherer, R.P., Ltd.	Windsor	U	Detroit River	None	S
	John Wyeth Bros. Ltd.	Windsor	U	Detroit River	None	U.S
Plating	Andrews Wire Works	Watford	U.R	Brown Creek	None	U.S
	Acme Chrome	Windsor	U	Detroit River	None	U.S
	Canadian Couplings	Simcoe	U.R	Lynn River	Partial	U.S
	Canadian Motor Lamp	Windsor	U.R	Detroit River	None	S
	Dura-Chrome Ltd.	Wallaceburg	U.R	Sydenham River	None	U.S
	East Side Plating	Sandwich	U.R	Detroit River	None	U.S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Plating (cont'd)	Luster Corp. Canada	Wallaceburg	U.R	Sydenham River	None	U.S
	Morrow Screw and Nut	Ingersoll	U.R	Thames River	Partial	U.S
	Sales, A.J., Ltd.	Ridgetown	U.R	Thames River	Complete	U.S
	Wallaceburg Brass Co.	Wallaceburg	U.R	Sydenham River	None	U.S
	Mueller Ltd.	Sarnia	U.R	St. Clair River	None	U.S
Plastics	Daymond Co. Ltd. (Yardley)	Chatham	U	Thames River	None	S
Pulp and Paper	Abitibi Power and Paper	Pt. Arthur	U.R	Thunder Bay	Partial	U.S
	Abitibi Power and Paper	Fort William	U.R	Thunder Bay	Partial	U.S
	Dontar Newsprint	Red Rock	U	Nipigon Bay	Partial	U.S
	Dryden Paper Co.	Dryden	U.R	Wabigoon Lake	Partial	U.S
	Great Lakes Paper Co.	Ft. William	U.R	Kaministiquia R.	Partial	U.S
	Kimberly Clark P. and P.	Terrace Bay	U.R	Blackbird Creek	Partial	U.S
	Marathon Corp. Canada	Marathon	U.R	Marathon Bay	Partial	U.S
	Ontario-Minnesota P. and P.	Ft. Frances	U.R	Winnipeg River	Partial	U.S
	Ontario-Minnesota P. and P.	Kenora	U.R	Rainy River	Partial	U.S
	Provincial Paper	Pt. Arthur	U.R	Thunder Bay	Partial	U.S
Service	Canada Packers	Windsor	U	Detroit River	None	S
Soft Drinks	Coca-Cola Ltd.	Windsor	U	Detroit River	None	U.S
	Vernors Ginger Ale	Windsor	U	Detroit River	None	U.S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Textiles	Brock Woolen Co.	Simcoe	U	Lynn River	Partial	U.S
	Fibre Products Can.	Brantford	U	Grand River	Partial	U.S
	Penmans Limited	Waterford	U	Nanticoke Creek	Complete	S
	Simcoe Wool Stock	Simcoe	U	Lynn River	None	S
	Watson Manuf. Co.	Brantford	U	Grand River	None	U.S
Woodworking	Northern Wood Preservers	Pt. Arthur	U.R	Thunder Bay	None	U.S
	Hay and Company	Woodstock	U	Cedar Creek	None	S

SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Municipal Treatment Facilities

Classification	Total	Current Status			Type of Mun. Facilities		Degree of Pretreatment			Efficacy of Pretreatment	
		U	U.R.	S	Firm.	Sec.	None	Partial	S	U.S.	% S
Automotive	1	1	0	0	0	1	1	0	1	0	100 %
Brewing	1	1	0	0	1	0	0	1	1	0	100 %
Building Products	1	0	0	1	0	1	1	0	1	0	100 %
* Canning	2	2	0	0	0	2	0	2	2	0	100 %
* Cheese	1	1	0	0	0	1	1	0	1	0	100 %
* Dairy	10	10	0	0	1	9	10	0	10	0	100 %
Electrical Electronic	2	2	0	0	0	2	1	1	2	0	100 %
Food Process	2	2	0	0	0	2	2	0	2	0	100 %
Manufacturing	17	10	4	3	0	17	15	2	13	4	76 %
Meat Packing	4	4	0	0	0	4	2	2	4	0	100 %
Metal Working	4	3	1	0	1	3	3	1	3	1	75 %
Paper Converting	1	1	0	0	0	1	1	0	1	0	100 %
Plating	2	1	0	1	0	2	2	0	1	1	50 %
Rubber	1	1	0	0	0	1	1	0	1	0	100 %
Soft Drinks	1	0	0	1	0	1	1	0	1	0	100 %
Tanning	1	1	0	0	0	1	1	0	1	0	100 %
Textile	7	5	1	1	0	7	6	1	7	0	100 %
Wine	1	1	0	0	0	1	1	0	1	0	100 %
TOTAL	59	46	6	7	3	56	49	10	53	6	90 %

Note: This data covers only those industries on the Industrial Wastes Branch files.

SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Municipal Treatment Facilities

Classification	Name	Location	Current Status	Type of Mun. Treat. Facilities	Degree of Pretreatment	Efficiency of Pretreatment
Automotive	Truck and Engineering Co.	Woodstock	U	Secondary	None	S
Brewing	Dorans N. Ont. Brewery	Port Arthur	U	Primary	Screening	S
Building Products	Domtar Construction Matls.	Brantford	S	Secondary	None	S
Canning	Canadian Canners Ltd.	Simcoe	U	Secondary	Screening	S
Cheese	York Farms	Brantford	U	Secondary	Screening	S
Dairy	Ingersoll Cheese Co.	Ingersoll	U	Secondary	None	S
	Borden Co. Ltd.	Ingersoll	U	Secondary	None	S
	Borden Co. Ltd.	Woodstock	U	Secondary	None	S
	Brant Co-Op Dairy	Brantford	U	Secondary	None	S
	MacNichols Dairy	Brantford	U	Secondary	None	S
	Maple Dairy	Woodstock	U	Secondary	None	S
	Mohawk Creamery	Brantford	U	Secondary	None	S
	Oxford Dairy	Woodstock	U	Secondary	None	S
	Silverwood Dairy	Brantford	U	Secondary	None	S
	Terrace Hill Dairy	Brantford	U	Secondary	None	S
	Petrolia Wyoming Dairy	Petrolia	U	Primary	None	S
	Canadian Westinghouse	Brantford	U	Secondary	Neutralization	S
Electrical	Crown Electrical	Brantford	U	Secondary	None	S
Food Process	Ralston Purina	Woodstock	U	Secondary	None	S
	Weston, George, Ltd.	Brantford	U	Secondary	None	S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Municipal Treatment Facilities (continued)

Classification	Name	Location	Current Status	Type of Mun. Treat. Facilities	Degree of Pretreatment	Efficacy of Pretreatment
Manufacturing	Brantford Lockwood	Brantford	U.R	Secondary	None	S
	Brantford Oven and Rack	Brantford	U	Secondary	None	S
	Campbell Electric	Brantford	U	Secondary	None	S
Clevite Limited	St. Thomas	U.R	Secondary	Grease Removal	U.S	
	Hussman Refrigeration	Brantford	U.R	Secondary	Neutralization	U.S
	Keeprite Products	Brantford	S	Secondary	None	S
	Kelvinator Canada	London	U	Secondary	None	U.S
	King Seagrave Ltd.	Woodstock	U	Secondary	None	S
	Liquid Carbonic Can. Corp.	Sandwich W.	U	Secondary	None	S
	Lockwood Manufacturing	Brantford	S	Secondary	None	S
	Massey Ferguson Ltd.	Woodstock	U	Secondary	None	S
	Morse Chain Canada	Simcoe	U	Secondary	None	S
	Moto-Power Inc.	Ingersoll	U	Secondary	None	S
	Proto Tools Canada	London	U	Secondary	None	U.S
	Simcoe Leaf Tobacco	Simcoe	U	Secondary	None	S
	A.G. Spalding Co. Ltd.	Brantford	S	Secondary	None	S
	Whitelaw Machinery	Woodstock	U	Secondary	None	S
	Coleman Packing	London	U	Secondary	None	S
	Ontario Turkey Growers	Ingersoll	U	Secondary	Screening	S
	Oxford Farmers Co-Op	Woodstock	U	Secondary	None	S
	Proctor Packers Ltd.	Brantford	U	Secondary	Grease Removal	S

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SUMMARY OF DISTRICT NUMBER 1

Industries Discharging to Municipal Treatment Facilities (continued)

Classification	Name	Location	Current Status	Type of Mun. Treat. Facilities	Degree of Pretreatment	Efficiency of Pretreatment
Metal Working	Canadian Pittsbourg Ind.	London	U.R	Secondary	Neutralization	U.S
	Holmet Foundry	Sarnia	U	Primary	None	S
	Standard Tube and T.I.	Woodstock	U	Secondary	None	S
	Weiler Machine Co.	Woodstock	U	Secondary	None	S
	Moulded Fibre Ltd.	Brantford	U	Secondary	None	S
Paper Converting	Industrial Platers	Sandwich W.	U	Secondary	None	U.S
Plating	L. and J. Plating	Brantford	S	Secondary	None	S
	Gates Rubber Can. Ltd.	Brantford	U	Secondary	None	U.S
	Coca-Cola Ltd.	Brantford	S	Secondary	None	S
Rubber	Robson Lang Leathers	London	U	Secondary	None	U.S
Soft Drinks	La France Textiles	Woodstock	S	Secondary	None	S
Tanning	Harding Carpets	Brantford	U	Secondary	None	S
Textile	E.E. Paquette and Sons	Woodstock	U	Secondary	None	S
	Penmans Limited	Paris	U.R	Secondary	Equalization	S
	Pond Fabrics Ltd.	Simcoe	U	Secondary	None	S
	York Knitting Mills	Woodstock	U	Secondary	None	S
	York Knitting Mills # 2	Woodstock	U	Secondary	None	S
Wine	London Winery	London	U	Secondary	None	S

SUMMARY OF DISTRICT NUMBER 1

Industries With Land Disposal Facilities

Classification	Name	Location	Current Status	Degree of Control	Efficacy of Control
Agricultural Chemicals	Shell Canada Ltd.	Simcoe	U	Minimum	S
Building Products	Schell Industries Ltd.	Woodstock	U	Minimum	S
Canning	Thomas Canning Ltd.	Sandwich Twp.	U	Minimum	U.S
Dairy	Villa Nova Milk Prods.	Villa Nova	U	Spray Irrigation	S
Metalworking	Vamco Aluminum Prods.	Strathroy	U	Minimum	S
Service	Goodfellow Construction	Sarnia	U.R	Minimum	U.S
				<u>U.R.</u>	<u>U</u>
TOTALS	7			<u>1</u>	<u>6</u>
				<u>S</u>	<u>U.S</u>
				<u>5</u>	<u>2</u>

DISTRICT NUMBER 1

"Status Unknown" Industries

<u>Name</u>	<u>Classification</u>	<u>Location</u>
Allen Ritchie Co. Ltd.		Brantford
Brass Craft Canada	Plating	Riverside
Canadian Canners Ltd.	Canning	Aylmer
" " "	"	Petrolia
" " "	"	Strathroy
Canadian Car Co.	Metalworking	Port Arthur
Canadian Castors	Manufacturing	Woodstock
Canadian Malting Co.	Brewing	Port Arthur
Canadian Leaf Tobacco	Manufacturing	Tillsonburg
Canadian National Railways	Service	Sioux Lookout
Clark, W. Ltd.	Canning	Harrow
Coca-Cola Ltd.	Soft Drinks	London
Cyanamid Canada	Agric. Chemicals	N. Oxford Twp.
East Erie Fishermans Co-Op.	Food Process	Port Dover
Gardner Denver		Woodstock
Field, J.G. and Co.		Tavistock
Emer Ltd.		London
Imperial Poultry	Meat Packing	Watford
Kirby Bros. Ltd.	Plating	Woodstock
Kirsca Mfg. Co. Ltd.	Manufacturing	Woodstock
John Labatt Ltd.	Brewing	London
Lake Erie and Lake St. Clair	Oil and Gas	Woodstock
Lake St. Clair Gas Fields	Oil and Gas	Essex County
Lakeside Packing	Meat Packing	Harrow
H.E. Mott Co.	Manufacturing	Brantford
National Steel Drum	Manufacturing	Petrolia
Nepco of Canada	Metalworking	Woodstock
Northern Resins and Chemicals	Paint	Petrolia
Oxford Precision Products	Metalworking	Woodstock
Pyramid Canners	Canning	Leamington

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DISTRICT NUMBER 1

"Status Unknown" Industries (continued)

<u>Name</u>	<u>Classification</u>	<u>Location</u>
Richard C. Wilcox		London
James Stewart Mfg.	Manufacturing	Woodstock
Strike Rite Matches	Manufacturing	London
Trans Canada Pipelines	Service	Port Arthur
Vanadium Alloys and Steel Co.	Metallurgical	London
Wilson and Loder Fisheries	Food Process	Port Stanley
St. Williams Frozen Food	Canning	Simcoe
Norfolk Knitters Ltd.	Textile	Port Dover
York Knitting Mills (Hosiery)	Textile	Woodstock
Hyman, C.S. Leathers	Tanning	London

TOTAL - 40

District Number 2 - General Summary

	<u>Satisfactory</u>	<u>Unsatisfactory</u>	<u>Total</u>	<u>% S</u>
To Surface Waters	60	101	161	27.0
To Municipal Facilities	74	17	91	81.3
Land Disposal	8	0	8	100 %
Status Unknown	---	---	40	—
	142	118	300	54.7 %

SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment		
		U	U.R	S	None	Partial	Complete	S	U.S	% S
Agricultural Chemicals	7	2	4	1	3	4	0	2	5	28.6 %
Automotive	1	0	1	0	1	0	0	0	1	0
Brewing	2	2	0	0	1	1	0	1	1	50 %
Building Products	5	2	0	3	2	2	1	5	0	100 %
Canning	3	1	1	1	2	0	1	2	1	66.7 %
Ceramic	5	2	0	3	2	3	0	4	1	80 %
Chemical	12	7	3	2	4	5	3	4	8	33.4 %
Chemical Specialties	1	1	0	0	0	1	0	0	1	0
Dairy	2	1	1	0	2	0	0	0	2	0
Distilling	1	0	1	0	1	0	0	1	0	100 %
Electrical Electronic	6	1	2	3	5	1	0	3	3	50 %
Food Process	4	2	2	0	2	2	0	0	4	0
Manufacturing	4	1	2	1	2	2	0	1	3	25 %
Meat Packing	5	4	1	0	0	5	0	0	5	0
Metal Refining	3	0	2	1	2	1	0	1	2	33.4 %
Metal Working	11	0	6	5	8	3	0	5	6	45.5 %
Metallurgical	5	0	3	2	2	3	0	2	3	40 %

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Industries Discharging to Surface Waters (cont'd)

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment	
		U	U.R	S	None	Partial	Complete	S	U.S
Mining	28	7	21	0	9	11	8	13	15
Nuclear	1	0	1	0	1	0	0	1	0
Plating	8	5	3	0	7	1	0	0	8
Pharmaceutical	1	0	0	1	1	0	0	1	0
Petroleum	1	1	0	0	0	0	1	1	0
Pulp and Paper	11	2	9	0	9	2	0	0	11
Plastics	1	0	1	0	0	1	0	0	0
Rubber	3	1	2	0	3	0	0	2	1
Service	8	6	2	0	4	4	0	5	3
Smelting	5	0	3	2	5	0	0	4	1
Tanning	1	0	1	0	0	1	0	0	0
Textile	12	8	3	1	10	2	0	1	11
Vegetable Oil	1	0	1	0	0	1	0	0	0
Wine	3	1	1	1	2	1	0	1	2
TOTALS	161	57	77	27	90	57	14	60	101
									27 %

Abbreviations: U = Unknown

U.R = Under Review

S = Satisfactory

U.S = Unsatisfactory

SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficiency of Treatment
Agricultural Chemicals	Bartlett Manuf.	Beamsville	U	Lake Ontario	None	U.S
	Canadian Industries Ltd.	Hamilton	U.R	Burlington Bay	Partial	U.S
	Cyanamid Canada Ltd.	Hamilton	U.R	Burlington Bay	None	U.S
	Cyanamid Canada Ltd. (Welland Plant)	Niagara Falls	S	HEPC Canal to Niagara River	None	S
	Cyanamid Canada Ltd.	Niagara Falls	U.R	Welland River	Partial	U.S
	Electric Reduction Co.	Pt. Maitland	U.R	Grand River	Partial	U.S
	Read Fertilizers Ltd.	Elmira	U	Grand River	Partial	S
Automotive	Ford Motor Co.	Crowland Twp.	U.R	Welland River	None	U.S
Brewing	Formosa Brewing	Carrick Twp.	U	Formosa Creek	Partial	S
	Dorans Brewing	Sudbury	U	Junction Creek	None	U.S
	Cdn. Gypsum Company	Hagersville	U	Grand River	Complete	S
	Canada Cement Co.	Pt. Colborne	S	Lake Erie	None	S
Building Products	Dontar Construction Mtls.	Caledonia	U	Grand River	Partial	S
	Barret Spun Concrete	Niagara Falls	S	Niagara River	Partial	S
	Provincial Cut Stone	Niagara Falls	S	Niagara River	None	S
	Arkell Foods	Grimsby	U	Lake Ontario	Complete	S
	Grand Valley Canners	Dunnville	U.R	Grand River	None	U.S
Canning	Bright Canning	Niagara Falls	S	Welland River	None	S
	Fiberglas Canada	Guelph	U	Welland River	Partial	S
	Norton Co. Canada	Chippawa	S	Welland River	None	S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Ceramic (continued)	Columbian Carbon	Hamilton	U	Burlington Bay	Partial	U.S
	Cdn. Carborundum	Niagara Falls	S	Welland River	Partial	S
	Exelon Co. Ltd.	Thorold Twp.	S	Marlatts Pond	None	S
Chemical	Cdn. Industries Ltd.	Copper Cliff	U	Kelly Lake	Partial	U.S
	Domtar Chemicals	Hamilton	U.R	Burlington Bay	Complete	U.S
	Domtar Chemicals	Sault St. M.	U	Spring Creek	Partial	U.S
	Elmira Acid and Chemical	Elmira	U	Grand River	None	S
	B.F. Goodrich Chemicals	Thorold Twp.	U	Welland River	Partial	U.S
	Naugatuck Chemicals	Elmira	U	Grand River	Partial	U.S
	Nichols Chemical Co.	Thorold Twp.	U	Welland River	Complete	S
	Proctor and Gamble Co.	Hamilton	U.R	Burlington Bay	Partial	U.S
	Sherbrooke Metallurgical	Pt. Maitland	S	Grand River	Complete	S
	Tiernan, Wallace, Co.	Bertie Twp.	U.R	Lake Erie	None	U.S
	Lubrizol of Canada	Niagara Falls	S	HEPC Canal	None	S
	Alchem Ltd.	Burlington	U	Lake Ontario	None	U.S
	Hart Products	Guelph	U	Speed River	Partial	U.S
Chemical Specialties	Bluevale Creamery	Turnberry	U	Little Maitland River	None	U.S
Dairy	Dunnville	Dunnville	U.R	Grand River	None	U.S
Distilling	Seagram, J.R. and Sons	Waterloo	U.R	Grand River	None	S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Electrical, Electronic	Avionics Ltd.	Niagara on Lake	U	Two Mile Creek	Partial	U.S
Reliance Electrical	Lake Welland	S	Welland River	None	S	S
Switson Industries	Welland	S	Welland River	None	S	S
Fleet Manufacturing	Fort Erie	U.R	Franchman's Creek	None	U.S	U.S
Gould National Batteries	Fort Erie	U.R	Niagara River	None	U.S	U.S
Cdn. Westinghouse P. # 3	Hamilton	S	Burlington Bay	None	S	S
Food Process	Best Foods Ltd.	Ayr	U	Grand River	Partial	U.S
	Maple Leaf Milling	Pt. Colborne	U.R	Welland River	Partial	U.S
	Best Yeast Ltd.	Thorold Twp.	U	Welland River	None	U.S
	Robin Hood Flour Mills	Humberstone Twp.	U.R	Welland River	None	U.S
Manufacturing	National Steel Car	Hamilton	U.R	Burlington Bay	Partial	U.S
	Stamped and Enamelled Ware	Hespeler	U	Speed River	None	U.S
	Haber Manufacturing	Fort Erie	S	Niagara River	Partial	U.S
	Hart Cooley	Fort Erie	U.R	Niagara River	None	U.S
	Bruce Packers	Paisley	U	Saugeen River	Partial	U.S
	Dundas Producers	Beverley Twp.	U	Burlington Bay	Partial	U.S
	Ontario Rendering Co.	Dundas	U	Burlington Bay	Partial	U.S
	Tend-R-Flesh Ltd.	Petersburg	U	Manhniem Creek	Partial	U.S
	Gordon Young Ltd.	Elmira	U.R	Canagagique Creek	Partial	U.S
	Int'l Nickel Co.	Pt. Colborne	U.R	Lake Erie	None	U.S
	Williams Gold Refining	Fort Erie	S	Niagara River	None	S
Metal Refining	Copper Cliff	Copper Cliff	U.R	Kelly Lake	Partial	U.S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Metalworking	Atlas Steels, Ltd.	Welland	U.R	Welland River	None	U.S
	Canada Furnace Co.	Pt. Colborne	S	Lake Erie	None	S
	Page Jersey Tubes	Welland	U.R	Welland River	None	U.S
	Stanton Pipes Ltd.	Hamilton	U.R	Burlington Bay	Partial	U.S
	Whiting Corp. Ltd.	Welland	S	Welland River	None	S
	Horton Steel	Fort Erie	S	Niagara River	Partial	S
	Interlake Steel	Thorold	U.R	Old Welland Canal	None	U.S
	Canada Foundries and Forgings	Welland	S	Welland River	None	S
	Welland Tubes Ltd.	Welland	U.R	Lyons Creek	Partial	U.S
	Hayes Steel Co.	Thorold Twp.	U.R	Beaver Dams Creek	None	U.S
	Last Minute Manuf.	Thorold	S	Old Welland Canal	None	S
	Algoma Steel Co.	S.S. Marie	U.R	St. Mary River	Partial	U.S
Metallurgical	Dom. Foundries and Steel Co.	Hamilton	U.R	Burlington Bay	Partial	U.S
	Steel Co. Canada	Hamilton	U.R	Burlington Bay	Partial	U.S
	Union Carbide Can.	Welland	S	Welland Canal	None	S
	Strategic Udy Metallur.	Niagara Falls	S	Welland River	None	S
	Algoma Steel Ore Proper.	Wawa	U	Magpie River	Complete	S
Mining	Domtar Chemicals	Goderich	U	Maitland River	Complete	U.S
	Lowphos Ore Co. Ltd.	Hutton Twp.	U.R	Roberts River	Complete	S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Mining (cont'd)	Renabie Mines Ltd.	Renabie	U.R	Missinabie Lake	Complete	U.S
	Rio Algom Mines (Milliken)	Elliot Lake	U	Elliot Lake	Partial	S
	Rio Algom (Nordic)	Elliot Lake	U	Elliot Lake	Partial	S
	Rio Algom (Pronto)	Elliot Lake	U	Elliot Lake	Partial	S
	Rio Tinto Dow Ltd.	Elliot Lake	U	Elliot Lake	None	S
	Stannrock Uranium Mines	Elliot Lake	U	Elliot Lake	Partial	U.S
	Metal Mines Ltd	Gordon Lake	U.R	Gordon Lake	Partial	U.S
	Int'l Nickel (Murray)	Sudbury	U.R	Nolin Creek	Partial	U.S
	" (Frood-Stobie)	Sudbury	U.R	Junction Creek	None	U.S
	" (Garson)	Garson	U.R	Junction Creek	None	U.S
	" (Clarabelle)	Sudbury	U.R	Coppercliff Creek	None	U.S
	" (Creighton)	Snider	U.R	Mud Lake	None	U.S
	" (Creighton Mill)	Creighton	U.R	Kelly Lake	Complete	S
	" (Levack Mine and Mill)	Levack Twp.	U.R	Onaping River	Partial	U.S
	" (Copper Cliff Mill)	Copper Cliff	U.R	Kelly Lake	Complete	S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Mining (cont'd)	Falconbridge Nickel: (Falconbridge and East) (Hardy and Boundary) (Onaping) (Strathcona) (Fecunis Lake Mine) (Falconbridge Mill) (Fecunis Lake Mill) (Hardy Mill)	Falconbridge Levack Twp. Onaping Dist. Levack Twp. Onaping Dist. Falconbridge Onaping Dist. Onaping Dist. Falconbridge	U.R U.R U.R U.R U.R U.R U.R	Emery Creek Onaping River Gill Pond Moose Creek Fecuris Lake Fault Lake Moose Lake Onaping River Emery Creek	Partial None None None None Complete Partial Partial	S S S S U.S S U.S U.S
Nuclear	Int'l Nickel Iron Ore Recovery Plant	Waters Twp.	U.R	Copper Cliff Creek	Complete	S
Plating	Candu Reactor (AEC)	Bruce Twp.	U.R	Lake Huron	None	S
	Electronic Coatings Ltd.	Galt	U	Grand River	None	U.S
	Galt Brass Co. Ltd.	Galt	U	Grand River	None	U.S
	Hahn Brass Co. Ltd.	New Hamburg	U.R	Nith River	Partial	U.S
	Rauscher Plating Ltd.	Galt	U	Grand River	None	U.S
	Royal Metal Mfg. Ltd.	Galt	U	Grand River	None	U.S
	York Electroplating	Thorold	U.R	Old Welland Canal	None	U.S
	Bissell Limited	Niagara Falls	U.R	H.E.P.C. Canal	None	U.S
	Allen-Bradley	Galt	U	Grand River	None	U.S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Pharmaceutical	Strong Cobb and Arner	Fort Erie	S	Niagara River	None	S
Petroleum	Schofield Devries Ltd.	Waterloo	U	Grand River	Complete	S
Pulp and Paper	Abitibi Power and Paper	S.S. Marie	U.R	St. Mary's River	None	U.S
	Beaverwood Fibre	Thorold	U.R	Twelve Mile Creek	None	U.S
Domtar Pulp and Paper:						
	(Lincoln)	St. Catharines	U.R	Old Welland Canal	None	U.S
	(H. Smith)	St. Catharines	U.R	Old Welland Canal	None	U.S
	(Kraft)	Thorold	U.R	Old Welland Canal	None	U.S
	Garden City Paper Mills	St. Catharines	U	Old Welland Canal	None	U.S
	Interlake Tissue Mills	St. Catharines	U	Old Welland Canal	None	U.S
	The K.V.P. Co. Ltd.	Espanola	U.R	Spanish River	Partial	U.S
	Ontario Paper Co.	Thorold Twp.	U.R	Old Welland Canal	Partial	U.S
	Provincial Paper Co.	Thorold	U.R	Old Welland Canal	None	U.S
	Thorold Pulp Co.	Thorold	U.R	Old Welland Canal	None	U.S
	Keyson Rubber and Plas.	Preston	U.R	Speed River	Partial	U.S
Plastics	G.L. Griffith	Stratford	U	Avon River	None	S
Rubber	General Tire and Rubber	Welland	U.R	Welland River	None	S
	Firestone Tire and Rub.	Hamilton	U.R	Burlington Bay	None	U.S
Service	Great Northern Gas	S.S. Marie	U	Davieux Creek	None	U.S
	Cdn. Nat'l Railways	Capreol	U	Vermillion River	Partial	U.S
	Cdn. Pacific Railways	Chapleau	U	Kebsquashng River	Partial	S

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SUMMARY OF DISTRICT NUMBER 2Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Service	Goderich Elevator Transit	Goderich	U	Maitland River	Partial	U.S
	Hydro Elec. Commission	Stratford	U	Avon River	None	S
	Inter Prov'l Pipeline	Beverly Twp.	U	Lake Ontario	None	S
	Nat. Harbours Board	Pt. Colborne	U.R	Lake Erie	None	S
	Cdn Nat'l and Wabash Ry.	Fort Erie	U.R	Niagara River	Partial	S
Smelting	Int'l Nickel Co. Smelter	Copper Cliff	U.R	Copper Cliff Creek	None	U.S
	INCO Coniston Smelter	Coniston	U.R	Romford Creek	None	S
	Falconbridge Nickel Mines Smelters	Falconbridge	U.R	Boucher Lake	None	S
	Welland Electric Steel	Welland	S	Welland River	None	S
	General Smelting Co.	Hamilton	S	Burlington Bay	None	S
	Darling Co. Cda.	Beverly Twp.	U.R	Grand River	Partial	U.S
Tanning	Artex Woollens Ltd.	Hespeler	U	Grand River	Partial	U.S
Textile	Borg Fabrics Ltd.	Elmira	U.R	Canagagique Creek	None	U.S
	Dominion Fabrics Ltd.	Dunnville	U.R	Grand River	None	U.S
	Dominion Woollens	Hespeler	U	Speed River	None	U.S
	Grosch Felt Shoe Co.	Milverton	U	Middle Maitland Riv.	Partial	U.S
	Greenhalgh Dye Works	Hespeler	U	Speed River	None	U.S
	Harding Carpets	Guelph	U	Speed River	None	U.S
	Imperial Cloth Co.	Listowel	U	Maitland River	None	U.S

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SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Textile (cont'd)	Monarch Knitting Mills	Dunnville	U.R	Grand River	None	U.S
	Spinrite Yarns and Dyers	Listowel	U	Maitland River	None	U.S
	Plymouth Cordage	Welland	S	Welland River	None	S
	Wabasso Cotton	Welland	U.R	Welland River	None	U.S
Vegetable Oil	Cdn. Veg. Oil Process.	Hamilton	U.R	Burlington Bay	Partial	U.S
	Chateau-Gai Wines	Niagara Falls	U.R	Niagara River	None	U.S
Wine	Welland Winery	Welland	S	Welland River	None	S
	Jordan Wines Ltd.	Jordan	U	Twenty Mile Creek	Partial	U.S

SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Municipal Treatment Facilities

Classification	Total	Current Status			Type of Mun. Facilities		Degree of Pretreatment			Efficacy of Pretreatment	
		U	U.R	S	Prim.	Sec.	None	Partial	S	U.S.	S
Agricultural Chemicals	1	0	0	1	1	0	1	0	1	0	100 %
Baking	2	2	0	0	0	2	2	0	2	0	100 %
Brewing	2	1	1	0	1	1	0	2	1	1	50 %
Canning	2	1	0	1	1	1	2	0	1	1	50 %
Chemical	3	2	0	1	2	1	2	1	2	1	33.4 %
Ceramic	3	2	0	1	3	0	2	1	3	0	100 %
Dairy	1	1	0	0	0	1	1	0	1	0	100 %
Distilling	1	0	1	0	0	1	1	0	0	1	0
Electrical Electronic	6	3	0	3	3	3	5	1	6	0	100 %
Food Process	7	6	1	0	3	4	7	0	5	2	71 %
Manufacturing	26	18	1	7	9	17	25	1	24	2	92 %
Meat Packing	6	5	1	0	1	5	3	3	0	6	0
Metal Working	3	1	0	2	2	1	3	0	3	0	100 %
Paper Converting	2	1	0	1	1	1	2	0	2	0	100 %
Plating	8	6	1	1	2	6	8	0	7	1	87.5 %
Plastics	1	1	0	0	0	1	1	0	1	0	100 %
Rubber	5	5	0	0	0	5	4	1	5	0	100 %
Tanning	2	2	0	0	0	2	1	1	1	1	50 %
Textile	10	10	0	0	1	9	7	3	9	1	90 %
TOTAL	91	67	6	18	30	61	77	14	74	17	81.3 %

Abbreviations:

U = Unknown

U.R = Under Review

S = Satisfactory

U.S. = Unsatisfactory

SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Municipal Treatment Facilities

Classification	Name	Location	Current Status	Type of Municipal Treatment Facilities	Degree of Pretreatment	Efficacy of Pretreatment
Agricultural Chemicals	Chipman Chemicals	Hamilton	S	Primary	None	S
Baking	Weston Bakeries Ltd.	Kitchener	U	Secondary	None	S
	Dare Foods	Kitchener	U	Secondary	None	S
Brewing	Carling Breweries	Waterloo	U.R	Secondary	Screening	U.S
	Dorans Breweries	Sault Ste. Marie	U	Primary	Screening	S
Canning	Mathews and Wells Pickles	Guelph	U	Secondary	None	U.S
	Gerber Food Products	Niagara Falls	S	Primary	None	S
Chemical	Canadian Analine Extract	Hamilton	S	Primary	None	S
	M. and T. Products	Hamilton	U	Primary	Neutralization	S
	Wonderful Soap Co.	Guelph	U	Secondary	None	U.S
Ceramic	Lionite Abrasive	Niagara Falls	U	Primary	None	S
	Norton Co. Canada	Hamilton	U	Primary	None	S
	Canadian Ohio Brass	Niagara Falls	S	Primary	Settling	S
Dairy	United Dairy and Poultry Co-op.	Blyth Twp.	U	Secondary	None	S
Distilling	Seagram J.E. and Sons	Waterloo	U.R	Secondary	None	U.S
Electrical and Electronic	Canadian Westinghouse	Stratford	U	Secondary	None	S
	Canadian Westinghouse Plant # 1	Hamilton	S	Primary	None	S
	same	Plant # 2	Hamilton	S	Primary	None

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Industries Discharging to Municipal Treatment Facilities (cont'd)

Classification	Name	Location	Current Status	Type of Treatment Facilities	Municipal Facilities	Pretreatment	Degree of Pretreatment	Efficacy of Pretreatment
Electrical and Electronic	Burgess Battery Co.	Niagara Falls	S	Primary	None	S	S	S
	General Instruments	Waterloo	U	Secondary	Equalization	S	S	S
	Marsland Engineering Company	Waterloo	U	Secondary	None	S	S	S
Food Process	Hostess Food Products	Preston	U	Secondary	None	U.S	U.S	U.S
	Made-Rite Products	Stratford	U	Secondary	None	S	S	S
	McLarens Ltd.	Hamilton	U.R	Primary	None	U.S	U.S	U.S
	Standard Brands Ltd.	Guelph	U	Secondary	None	S	S	S
	Nabisco Foods Ltd.	Niagara Falls	U	Primary	None	S	S	S
	Canadian Home Products	Niagara Falls	U	Primary	None	S	S	S
	Smiles "N" Chuckles Ltd.	Kitchener	U	Secondary	None	S	S	S
Manufacturing	Armco Drainage Products	Guelph	S	Secondary	None	S	S	S
	Blackstone Industrial Products	Stratford	U	Secondary	None	S	S	S
	Canadian Skate Manuf.	Kitchener	U	Secondary	None	S	S	S
	Cleaver Brooks Ltd.	Stratford	U	Secondary	None	S	S	S
	Cooper Bessemer Ltd.	Stratford	U	Secondary	None	S	S	S
	Daisy Manufacturing	Preston	U	Secondary	None	S	S	S
	Fischer Bearings Mfg.	Stratford	U	Secondary	None	S	S	S
	Franklyn Manufacturing	Galt	U	Secondary	None	S	S	S
	Gibson Manufacturing	Guelph	U	Secondary	None	S	S	S

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Industries Discharging to Municipal Treatment Facilities (cont'd)

Classification	Name	Location	Current Status	Type of Municipal Treatment Facilities	Degree of Pretreatment	Efficacy of Pretreatment
Manufacturing	Guelph Engineering	Guelph	U	Secondary	None	S
	Guelph Stove Co.	Guelph	U	Secondary	None	S
	International Harvester	Hamilton	U.R.	Primary	None	U.S.
	Kroehler Manufacturing	Stratford	U	Secondary	None	S
	Preston Noelting Co.	Stratford	U	Secondary	None	S
	Samsonite Canada	Stratford	U	Secondary	None	S
	Stratford Machine and Tool	Stratford	U	Secondary	None	S
	Sunshine Office Equipment	Waterloo	U	Secondary	None	S
	Canada Wire and Cable	Hamilton	U	Primary	None	S
	Niagara Wire Weaving	Niagara Falls	S	Primary	None	S
	Animal Trap of America	Niagara Falls	S	Primary	None	S
	American Can Co.	Niagara Falls	S	Primary	None	S
	Herbert Morris Crane	Niagara Falls	S	Primary	None	S
	Provincial Engineering	Niagara Falls	S	Primary	None	S
	United Carr Fastener Co.	Hamilton	U	Primary	None	U.S.
	Zippo Manufacturing	Niagara Falls	S	Primary	None	S
	Crane Canada Ltd.	Stratford	U	Secondary	Settling Neutralization	S
	Burns and Co. Ltd.	Kitchener	U	Secondary	Screening and Grease Removal	U.S
	Meat Packing					

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Industries Discharging to Municipal Treatment Facilities (cont'd.)

Classification	Name	Location	Current Status	Type of Municipal Treatment Facilities	Pretreatment	Degree of Pretreatment	Efficiency of Pretreatment
Meat Packing	Hoffman, Phillip and Sons	Kitchener	U	Secondary	Grease Removal	U.S	
	Schneider, J.M., Ltd.	Kitchener	U	Secondary	Screening and Grease Removal	U.S	
	Whyte Packing Ltd.	Stratford	U	Secondary	None	U.S	
	Fiorentino, T. and Sons	Niagara Falls	U.R	Primary	None	U.S	
	Kitchener Packers	Kitchener	U	Secondary	None	U.S	
	Canadian Iron Foundries	Hamilton	S	Primary	None	S	
Metal Working	Oneida Ltd.	Niagara Falls	S	Primary	None	S	
	Sealed Power Corp.	Stratford	U	Secondary	None	S	
	Adco Paper Products	Hespeler	U	Secondary	None	S	
	Kimberley Clark Canada	Niagara Falls	S	Primary	None	S	
	Globe Stamping Ltd.	Kitchener	U	Secondary	None	S	
	Hager Hinge Co. Ltd.	Waterloo	U	Secondary	None	S	
Plating	Hy-Grade Electro Platers	Guelph	U	Secondary	None	S	
	Joseph, N.C., Aluminum	Niagara Falls	S	Primary	None	S	
	Kuntz Electro Plating	Kitchener	U	Secondary	None	S	
	McEwan, Syer and Moogk	Waterloo	U	Secondary	None	S	
	National Standard Co.	Guelph	U	Secondary	None	S	
	Dominion Chain Co.	Niagara Falls	U.R	Primary	None	U.S	
Plastics	Morval Products	Kitchener	U	Secondary	None	S	

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Industries Discharging to Municipal Treatment Facilities (cont'd)

Classification	Name	Location	Current Status	Type of Treatment Facilities	Degree of Pretreatment	Efficacy of Pretreatment
Rubber	Dominion Rubber Co. Tire Division	Kitchener	U	Secondary	Settling	S
	Dominion Rubber Co. Foam Plant	Kitchener	U	Secondary	None	S
	Goodrich, B.F., Chemicals	Kitchener	U	Secondary	None	S
	Kauffman Rubber	Kitchener	U	Secondary	None	S
	Sterling Rubber	Guelph	U	Secondary	None	S
	Ontario Tanning	Kitchener	U	Secondary	None	S
	Robson Lang Leathers	Kitchener	U	Secondary	Screening	U.S
	Avalon Fabrics	Stratford	U	Secondary	None	S
	Biltmore Hats	Guelph	U	Secondary	None	U.S
	Dobbie Industries	Galt	U	Secondary	Screening	S
Textile	Dominion Rubber Textile Pl.	Kitchener	U	Secondary	Screening	S
	Fromm Bros.	Galt	U	Secondary	None	S
	Hamburg Felt Boot	New Hamburg	U	Secondary	Neutralization	S
	Niagara Rug Co.	Niagara Falls	U	Primary	None	S
	John Rennie Co.	Guelph	U	Secondary	None	S
Tanning	Rumpel Felt Co.	Kitchener	U	Secondary	None	S
	Stauffer-Dobbie Co.	Galt	U	Secondary	None	S

SUMMARY OF DISTRICT NUMBER 2

Industries with Land Disposal Facilities

Classification	Name	Location	Current Status	Degree of Control	Efficacy of Control
Dairy	Canada Packers	Harriston	U	Minimum	S
	Saltford Heights Creamery	Colborne Twp.	U	Minimum	S
Manufacturing	John Deere Plough	Humberstone Twp.	S	Minimum	S
Meat Packing	Niagara Sausage	Welland	S	Minimum	S
	Welland Packers	Welland	S	Minimum	S
	Stratford Packers	Stratford	U	Minimum	S
Metalworking	Dominion Tack and Nail	Galt	U	Minimum	S
Wine	Brights Wines	Niagara Falls	U	Minimum	S
	TOTALS	8	<u>U.R.</u> 0	<u>U</u> 5	<u>U.S.</u> 0
			<u>S</u> 8	<u>S</u> 5	<u>0</u>

DISTRICT NUMBER 2

"Status Unknown" Industries

<u>Name</u>	<u>Classification</u>	<u>Location</u>
Barlin Scott Manufacturing	Manufacturing	Saltfleet
Beatty Bros. Ltd.	Manufacturing	Fergus
Biggar Frosted Foods	Food Process	Saltfleet
Briden Co. Ltd.		Listowel
Campbell Soup Co.	Food Process	Listowel
Canada Felting Co.	Building Products	St. Jacobs
Cdn. Gypsum Co.	Ceramic	Guelph
Cdn. Vegetable Parchment	Pulp and Paper	St. Catharines
Cdn. National Railways	Service	Hornepayne
Cdn. Pacific Railways	Service	Sudbury
Computing Devices Can. Ltd.	Electrical, Electronic	Stratford
Domtar Chemicals	Chemical	Hespeler
F.A.M.E.	Meat Packing	Ayr
Ferranti-Packard	Electrical, Electronic	St. Catharines
Holody Electroplating	Plating	Guelph
R.M. Glintz		Niagara Falls
Greenmelk Co.	Food Process	Smithville
Guaranty Silk Dyeing	Textile	St. Catharines
Highland Packers	Meat Packing	Vinemount
International Fertilizers	Agric. Chemical	Cutler
International Malleable Iron	Metal Working	Guelph
Interprovincial Co-Op	Meat Packing	Stamford Twp.
Larsen and Shaw		Walkerton
McFadden Lumber Co.	Woodworking	Blind River
McHardy Packing	Meat Packing	Harriston
McHardy Packing	Meat Packing	Harriston
McKinnon Industries	Metalworking	St. Catharines
Meciejowski Cured Meats	Meat Packing	Welland
Niagara Food Products	Meat Packing	Stoney Creek
Nicholson and Stetler		Waterdown
Ondursek, R.	Meat Packing	Wainfleet

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DISTRICT NUMBER 2

"Status Unknown" Industries

<u>Name</u>	<u>Classification</u>	<u>Location</u>
Shawinigan Chemicals	Chemical	St. Catharines
E.D. Smith and Sons	Canning	Saltfleet Twp.
Strub Bros.	Food processing	Dundas
Tiptop Canners	Canning	Flamborough W. Twp.
Tregunno Fruit Farms	Canning	Pelham
Vineland Canning	Canning	Pelham
New Dundee Co-Op Creamery	Dairy	New Dundee
Caledonia Milling Co. Ltd.	Milling	Caledonia
Dundas Valley Food Products	Canning	Flamborough W. Twp.
Cdn. Pacific Railways	Service	Cartier

District Number 3 - General Summary

	<u>Satisfactory</u>	<u>Unsatisfactory</u>	<u>Total</u>
To Surface Waters	21	38	59
To Municipal Facilities	19	41	60
Land Disposal	1	4	5
Status Unknown	—	—	<u>21</u>
Total	41	83	145

SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Surface Waters

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment		
		U	U.R.	S	None	Partial	Complete	S	U.S.	% S.
Agricultural Chemicals	1	0	1	0	1	0	0	1	0	100 %
Automotive	1	0	1	0	0	1	0	1	0	100 %
Building Products	3	0	3	0	1	2	0	2	1	33.3 %
Canning	2	2	0	0	1	1	0	0	2	0
Ceramic	4	1	3	0	2	2	0	2	2	50 %
Chemical	4	1	3	0	1	3	0	3	1	75 %
Electrical Electronic	2	1	1	0	2	0	0	0	2	0
Food Process	5	3	2	0	3	1	1	0	5	0
Manufacturing	12	6	6	0	5	5	2	3	9	25 %
Meat Packing	1	0	1	0	0	0	1	0	1	0
Metal Refining	1	1	0	0	1	0	0	0	1	0
Metalworking	5	4	1	0	4	1	0	2	3	40 %
Pulp and Paper	6	0	6	0	4	2	0	0	6	0
Rubber	1	1	0	0	1	0	0	1	0	100 %
Service	6	5	1	0	3	3	0	4	2	66.7 %
Smelting	1	1	0	0	1	0	0	0	1	0
Textile	4	4	0	0	4	0	0	2	2	50 %
TOTALS	59	30	29	0	34	21	4	21	38	35.6 %

SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Surface Waters

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Agricultural Chem.	Niagara Brand Chemicals	Burlington	U.R	Hager Creek	None	S
Automotive	Ford Motor Co. Ltd.	Oakville	U.R	Lake Ontario	Partial	S
Building Products	Canada Brick	Streetsville	U.R	Credit River	Partial	S
	Can. Johns-Manville	North Bay	U.R	Duchessay Creek	Lagooning	U.S
	St. Lawrence Cement	Clarkson	U.R	Lake Ontario	None	S
Canning	Campbell Soup Co.	New Toronto	U	Lake Ontario	None	U.S
	Reeves' and Leavens Canning	Bolton	U	Humber River	Screening-Lagoon	U.S
Ceramic	Assoc. Mineral Wool Co.	Etobicoke	U	Mimico Creek	None	S
	Cerametal Industries Ltd.	Streetsville	U.R	Millet's Creek	Ponding	U.S
	Ferro Enamels (Can.) Ltd.	Oakville	U.R	Morrison Creek	Filter Bed	U.S
	Smith and Stone Ltd.	Georgetown	U.R	Silver Creek	None	S
Chemical	Cdn Fine Colour Co. Ltd.	North York	U	Storm Sewer	Settling	U.S
	Dupont of Canada Ltd.	North Bay	U.R	La Vase River	None	S
	Monsanto Oakville (1960)	Oakville	U.R	Oakville Creek	Settling	S
	Hercules Powder Co. Ltd.	Burlington	U.R	Rambo Creek	Oil Sep.	S
Electrical, Electronic	Globelite Batteries Ltd.	Scarborough	U.R	Lake Ontario	None	U.S
	Stewart, James, Mfg. Co.	Penetang	U	Penetang Bay	None	U.S
Food Process	Federal Farms Ltd.	Bradford	U	Holland River	Partial	U.S
	Holland River Gardens Co.	Bradford	U	Holland River	None	U.S
	Pillsbury Canada Ltd.	Midland	U	Midland Bay	None	U.S
	St. Lawrence Starch Co.	Port Credit	U.R	Lake Ontario	None	U.S

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SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Surface Waters (cont'd)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficiency of Treatment
Food Process (cont'd)	Salada Foods Ltd.	Alliston	U.R	Creek	Complete	U.S
Manufacturing	Bausch and Lomb Optical	Midland	U	Midland Bay	Settling	U.S
	Brampton Optical Co. Ltd.	Brampton	U	Etobicoke Creek	Settling	U.S
	Cdn. Motor Lamp Co.	Parry Sound	U.R	Otter Lake	Complete	S
	Cdn. Name Plate Co.	Midland	U	Midland Bay	None	U.S
	DeHavilland Aircraft	Toronto Twp.	U.R	Mimico Creek	Complete	U.S
	Dixie Cup (Canada) Ltd.	Brampton	U	Etobicoke Creek	None	S
	I.B.M. Co. Ltd.	Toronto	U	Lake Ontario	Partial	U.S
	Leitz, Ernst, (Cda.) Ltd.	Midland	U	Storm Sewer	Settling	U.S
	Qrenda Engines Ltd.	Malton	U.R	Mimico Creek	None	U.S
	Otaco Limited	Orillia	U.R	Storm Sewer	None	U.S
	Porter, H.R. Co. (Cda.)	Acton	U.R	Fairy Lake	Settling	S
	White-Rodgers Ltd.	Markham	U.R	—	None	U.S
	Sky-Line Farms Ltd.	Kettleby	U.R	—	None	U.S
	Amerock Ltd.	Meaford	U	Storm Sewer	Complete	U.S
Meat Packing	Anaconda American Brass	New Toronto	U	Lake Ontario	None	U.S
Metal Refining	Canadian General Electric	Barrie	U.R	Creek	None	S
Metalworking	Ontario Steel Prods. Co.	Milton	U	16 Mile Creek	None	S
	P.L. Robertson Mfg. Co. Ltd.	Milton	U	16 Mile Creek	Neut. and Lagoon.	U.S
	Steel Co. of Canada Ltd.	Swansea	U	Humber River	None	U.S

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SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Surface Waters (cont'd)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Mining	Kam-Kotia Porkupine Mines	Timmins	U.R	Kamiskotia River	None	S
	Temagami Mining Co. Ltd.	Temagami	U		None	U.S
Paint	Northern Pigment Co. Ltd.	Etbicoke	U		Partial	U.S
	Roxalin of Canada Ltd.	New Toronto	U	Storm Sewer		U.S
	Continental Can Co.	Toronto	U	Lake Ontario		U.S
Paper Converting	British American Oil Co.	Clarkson	U.R	Lake Ontario	Complete	S
Petroleum Refining	British Petroleum Co.	Bronte	U.R	Lake Ontario	Complete	S
	Cdn. Petrofina Ltd.	Metro Tor.	U			U.S
	Regent Refining (Cda) Ltd.	Port Credit	U.R	Lake Ontario	Partial	S
	Shell Canada Ltd.	Oakville	U.R	Lake Ontario	Complete	S
Plating	Dominion Electroplating	Midland	U	Storm Sewer	Storm Sewer	U.S
	Sterling Faucet (Cda) Ltd.	Oakville	U.R	16 Mile Creek	None	U.S
	Devilbiss (Canada) Ltd.	Barrie	U.R			S
Pulp and Paper	Abitibi Power and Paper	Iroquois F.	U.R	Abitibi River	None	U.S
	" "	"	Smooth Rock F.U.R	Mattagami River	None	U.S
	" "	"	Sturgeon F.	Sturgeon River	None	U.S
	Domtar Pulp and Paper	Georgetown	U.R	Credit River	Lagooning	U.S
	Provincial Paper Ltd.	"	U.R	Silver Creek	Clarifier, Partial	U.S
	Spruce Falls Power and Pap.	Kapuskasing	U.R	Kapuskasing R.	None	U.S
	Western Rubber Co.	Alton	U	Credit River	None	S

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SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Surface Waters (cont'd)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Service	Canadian National Rlys.	Armstrong	U		Partial	S
	" " "	Brent	U		Partial	S
	Canadian Pacific Rlys.	North Bay	U	Lake Nipissing	Oil Sep.	U.S
	Myers Water Conditioning	Woodbridge	U	Humber River	None	S
	Sloan Water Conditioning	Metro Tor.	U	Don River	None	U.S
	Liquid Cargo Lines	Clarkson	U.R	Ditch to L. Ontario	None	S
	Cobalt Refinery Ltd.	Cobalt	U		None	U.S
Smelting	Beaumont Knitting Co. Ltd.	Esquesing Fp.	U	Credit River	None	U.S
Textile	Continental Dye Works Ltd.	Bolton	U	Humber River	None	U
	Glen Knitting Mills	Esquesing Fp.	U	Credit River	None	U.S
	Globe Mills Ltd.	Meaford	U	Bighead River	None	U

SUMMARY OF DISTRICT NUMBER 2

Industries Discharging to Municipal Treatment Facilities

Classification	Total	Current Status			Degree of Pretreatment			Type of Mun. Facilities			Efficacy of Pretreatment				
		U	U.R.	S	None	Partial	Prim.	Sec.	S	U.S.	% S	S	U.S.	% S	
Automotive	1	0	1	0	1	0	0	0	1	1	100 %	0	0	100 %	
Brewing	2	0	2	0	2	0	1	1	0	2	0	0	2	0	
Building Products	1	0	1	0	1	0	0	1	1	1	100 %	0	0	100 %	
Canning	1	1	0	0	0	1	0	1	1	1	100 %	0	0	100 %	
Chemical	3	2	1	0	2	1	0	0	3	3	100 %	0	0	100 %	
Chemical Specialties	7	3	4	0	3	4	0	0	7	1	6	14.3 %	1	6	14.3 %
Dairy	2	2	0	0	2	0	0	0	2	1	1	50 %	1	1	50 %
Electrical Electronic	5	2	3	0	4	1	0	0	5	2	3	40 %	2	3	40 %
Food Process	3	3	0	0	2	1	0	0	3	0	3	0	3	0	0
Institution	1	1	0	0	0	1	0	0	1	1	0	100 %	1	0	100 %
Manufacturing	8	7	1	0	6	2	0	0	8	1	7	12.5 %	1	7	12.5 %
Meat Packing	6	5	1	0	3	3	0	0	6	0	6	0	6	0	0
Metal Refining	1	1	0	0	1	0	0	0	1	0	1	0	1	0	0
Metalworking	2	2	0	0	2	0	0	1	1	1	0	2	0	0	0
Paint	1	1	0	0	1	0	0	0	1	0	1	0	1	0	0
Paper Converting	1	1	0	0	1	0	0	1	0	1	0	1	1	2	33.3 %
Plating	3	1	2	0	2	1	0	0	3	1	0	1	2	0	33.3 %
Plastics	3	3	0	0	3	0	0	0	3	1	2	33.3 %	1	2	33.3 %
Service	1	1	0	0	1	0	0	0	1	0	1	0	1	0	0
Soft Drinks	2	0	2	0	2	0	0	0	2	2	2	0	2	0	100 %
Tanning	4	0	4	0	1	3	1	3	1	3	2	50 %	2	2	50 %
Textile	1	1	0	0	1	0	0	0	1	0	1	0	1	0	0
Woodworking	1	1	0	0	1	0	0	0	1	1	0	100 %	1	0	100 %
TOTAL	60	28	22	0	42	18	3	57	19	41	32 %				

SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Municipal Treatment Facilities

Classification	Name	Location	Current Status	Type of Mun. Treat.	Facilities	Pretreatment	Degree of Pretreatment	Efficiency of Pretreatment
Automotive	American Motors (Can.) Ltd.	Brampton	U.R	Secondary	None		S	
Brewing	Carling Breweries Ltd.	Etob. Twp.	U.R	Secondary	None		U.S	
	Doran's N. Ont. Breweries	Timmins	U.R.	Primary	None		U.S	
Building Products	Iko Asphalt Roofing Prods.	Brampton	U.R	Secondary	None		S	
Canning	Seales, W.G., Ltd.	Richmond Hill	U	Secondary	Partial		S	
Chemical	Harchem Limited	Mimico	U	Secondary	None		S	
	Rohm and Haas of Canada	Scarborough	U	Secondary	Partial		S	
	Borden Chemical	North Bay	U.R	Secondary	None		S	
Chem. Specialties	Cheeseborough-Pond's (Cda.)	Markham	U.R	Secondary	Partial		U.S	
	Diversey Corp. (Cda) Ltd.	Clarkson	U.R	Secondary	Partial		U.S	
	General Latex and Chemicals	Brampton	U	Secondary	Partial		U.S	
	Hercules Powder Co. Ltd.	Burlington	U.R	Secondary	Partial		S	
	Oakite Products, Inc.	Bramalea	U.R	Secondary	None		U.S	
	Page Bros. Prods. Ltd.	Brampton	U	Secondary	None		U.S	
	Pennsalt Chemicals of Cda.	Oakville	U	Secondary	None		U.S	
Dairy	Aurora Dairy	Aurora	U	Secondary	None		U.S	
	Borden Co. Ltd.	Orillia	U	Secondary	None		S	
	Amalgamated Electric Corp.	Markham	U.R	Secondary	None		U.S	
Electrical and Electronic	Force Elec. Products Ltd.	Acton	U.R	Secondary	None		S	
	Meredith, C.C. and Co. Ltd.	Streetsville	U	Secondary	None		U.S	
	Northern Electric Co. Ltd.	Bramalea	U.R	Secondary	Complete		S	
	Triangle Conduit and Cable	Scarborough	U	Secondary	None		U.S	

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SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Municipal Treatment Facilities (cont'd.)

Classification	Name	Location	Current Status	Type of Mun. Treat. Facilities	Degree of Pretreatment	Efficacy of Pretreatment
Food Process	Knoll View Farms Ltd.	Scarborough	U	Secondary	None	U.S
	Lipton, Thomas J. Co. Ltd.	Bramalea	U	Secondary	None	U.S
	United Farms, Ltd.	Bradford	U	Secondary	Partial	U.S
Institution	R.C.A.F.	North Bay	U	Secondary	Complete	S
Manufacturing	Benson and Hedges (Cda) Ltd.	Brampton	U	Secondary	None	U.S
	Canadian General Electric	Toronto	U	Secondary	Partial	S
	Carrier Air Conditioning	Bramalea	U	Secondary	None	U.S
	Copeland-Chatterton	Brampton	U	Secondary	None	U.S
	Flexonics Corp. of Cda.	Brampton	U	Secondary	None	U.S
	Lufkin Rule Co. of Cda.	Barrie	U.R	Secondary	Neutralizing	U.S
	Mosler-Taylor Safes	Brampton	U	Secondary	None	U.S
	Underwood Limited	Metro Toronto	U	Secondary	None	U.S
	Brampton Poultry Co. Ltd.	Brampton	U	Secondary	Screens	U.S
	Canada Packers Ltd.	Toronto	U	Secondary	None	U.S
	Choice Cut-up Chicken	Aurora	U	Secondary	None	U.S
	Fearman, F.W., Co. Ltd.	Burlington	U.R	Secondary	Primary	U.S
	First Co-operative Packers	Barrie	U	Secondary	Screening	U.S
	Niagara Finest Poultry	Burlington	U	Secondary	None	U.S
	Sonco Steel Products	Brampton	U	Secondary	None	U.S
Metal Refining	Lloyd Metal Mfg. Ltd.	Orillia	U	Primary	None	U.S
Metalworking	Ratcliffs (Cda) Ltd.	Richmond Hill	U	Secondary	None	U.S
Paint	British Paints (Cda) Ltd.	Oakville	U	Secondary	None	U.S

SUMMARY OF DISTRICT NUMBER 3

Industries Discharging to Municipal Treatment Facilities (cont'd)

Classification	Name	Location	Current Status	Type of Mun. Treat. Facilities	Degree of Pretreatment	Efficacy of Pretreatment
Paper Converting	Gummed Papers Ltd.	Brampton	U	Secondary	None	U.S
Plating	Canada-Ferro Co. Ltd.	Brampton	U.R	Secondary	Partial	U.S
	Cdn. General Electric	Barrie	U.R	Secondary	None	S
	Toronto Cadmium and Tinning	Toronto	U	Secondary	None	U.S
Plastics	Micro Plastics Ltd.	Acton	U	Secondary	None	S
	Rahn Metals Ltd.	North Bay	U	Secondary	None	U.S
	Usher Plastics Ltd.	Brampton	U	Secondary	None	U.S
Service	Northern Ind'l Launderies	Etobicoke	U	Secondary	None	U.S
Soft Drinks	Canada Dry	Barrie	U.R	Secondary	None	S
	Seven-up Canada Ltd.	Barrie	U.R	Secondary	None	S
Tanning	Barrie Tanning Ltd.	Barrie	U.R	Secondary	Partial	U.S
	Collis Leather Co. Ltd.	Aurora	U.R	Primary	Chlorination	U.S
	Lewis, Gerry, Ltd.	Brampton	U.R	Secondary	Chlorination	S
	Robson-Lang Leathers Ltd.	Barrie	U.R	Secondary		
Textile	Massar Knitting Co. Ltd.	Acton	U	Secondary		U.S
Woodworking	Canada Wood Specialties	Orillia	U	Secondary		S

SUMMARY OF DISTRICT NUMBER 2

Industries With Land Disposal Facilities

Classification	Name	Location	Current Status	Degree of Control	Efficacy of Control
Manufacturing and Nuclear	Canadian Curtis Wright Ltd.	Oakville	U	Septic Tanks	S
Service	A. and R. Liquid Wastes Removal Services Ltd.	Toronto	U	Land Dumping	U.S
	K and D Enterprises Ltd.	Oakville	U		U.S
Tanning	Beardmore and Co. Ltd.	Acton	U.R		U.S
	Collis Leather Co. Ltd.	Aurora			U.S

DISTRICT NUMBER 3

Unclassifiable Industries

<u>Name</u>	<u>Location</u>
Exide Batteries of Canada Ltd.	Toronto Township
Monarch Master Mfg. Ltd.	Orangeville
E.L. Ruddy Company, Ltd.	Toronto
Agnico Mines	Cobalt
Langis Silver and Cobalt Mining Co. Ltd.	Harris Township
Kerr-Addison Gold Mines Limited	McGarry Township
Jones and Laughlin Steel Corp.	Kirkland Lake
Dominion Colour Corp. Ltd.	New Toronto
Hygrade Containers Limited	Etobicoke
Baxter Laboratories of Canada Ltd.	Alliston
Alamo (Aurora) Limited	Aurora
Filtro Electric Limited	Orangeville
Union Screen Plate	Brampton
Koroflex Plastics Limited	Brampton
Bethel Latex Products	Bracebridge
Bulk Carriers Limited	Cooksville
Canadian Pacific Railway	Streetsville
Norm Wade Dye Disposal Company	Metro Toronto
Bell, P. Graham and Associates	Georgetown
Hamilton By-Producers Coke Ovens, Ltd.	Burlington
Lake Shore Die Casting Limited	Oakville

District Number 4 - General Summary

	<u>Satisfactory</u>	<u>Unsatisfactory</u>	<u>Total</u>	<u>% S.</u>
To Surface Waters	31	73	104	30
To Municipal Facilities	26	26	52	50
Land Disposal	2	7	9	20
Status Unknown			11	
	—	—	—	—
	59	106	176	

% Satisfactory - 36%

SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment		
		U	U.R.	S	None	Partial	Complete	S	U.S	% S
Adhesives	1	1	0	0	1	0	0	0	0	0 %
Automotive	2	1	1	0	1	0	0	0	2	0 %
Building Products	4	3	1	0	0	4	0	1	3	25 %
Canning	8	8	0	0	3	5	0	0	8	0 %
Ceramics	1	0	1	0	1	0	0	1	0	100 %
Chemicals	13	2	11	0	5	8	0	1	12	8 %
Dairy	4	3	1	0	4	0	0	0	4	0 %
Distilling	1	1	0	0	0	1	0	0	1	0 %
Electrical, Electronic	3	2	1	0	3	0	0	2	1	66 %
Food Process	9	4	5	0	8	1	0	5	4	56 %
Institutions	1	0	1	0	0	1	0	0	1	0 %
Manufacturing	8	3	5	0	5	2	1	5	3	63 %
Meat Packing	4	2	2	0	2	2	0	3	1	75 %
Metallurgical	3	3	0	0	3	0	0	2	1	66 %
Mining	4	2	2	0	0	2	2	1	3	25 %
Paper Convertors	2	0	2	0	0	2	0	1	1	50 %
Plating	9	3	6	0	6	2	1	1	8	11 %
Plastics	2	2	0	0	2	0	0	2	0	100 %
Pulp and Paper	6	2	4	0	2	4	0	1	5	17 %
Rubber	1	1	0	0	1	0	0	0	1	0 %

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SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters

Classification	Total	Current Status			Degree of Treatment			Efficacy of Treatment	
		U	U.R	S	None	Partial	Complete	S	U.S
Service	2	1	1	0	2	0	0	1	50 %
Soft Drinks	2	2	0	0	2	0	0	0	0 %
Tanning	4	0	4	0	1	3	0	0	0 %
Textiles	6	3	3	0	5	0	1	1	17 %
Woodworking	1	1	0	0	1	0	0	1	0 %
Metalworking	3	2	1	0	2	1	0	2	66 %
Totals	104	52	52	0	60	39	5	31	30 %

SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Adhesives	Stadex-Pirie Ltd.	Brockville	U	Butler Creek	None	U.S
Automotive	Dom. Brake Shoe Co. Ltd.	Lindsay	U.R	Scugog River	Partial	U.S
	Gen. Motors of Cda.	Oshawa	U	Lake Ontario	None	U.S
Building Products	Domtar Const. Materials	Cornwall	U	St. Lawrence	Partial	U.S
	Cooper Block Co. Ltd.	Pickering	U	Duffins Creek	Partial	U.S
	Canadian Gypsum Co. Ltd.	Hagersville	U	Boston Creek	Partial	S
	Frontenac Floor and W. Tile	Kingston	U.R	Catarqui River	Partial	U.S
Canning	Dyson's (Ontario) Ltd.	Brighton	U	Butler Creek	Screens	U.S
	Graham Food Products	Belleville	U	Moira River	None	U.S
	Graham Food Products	Brighton	U	Butler Creek	None	U.S
	McKenzie Canning Ltd.	Colborne	U	Colborne Creek	Partial	U.S
	Metcalfe Foods Ltd.	Deseronto	U	Bay of Quinte	Screened	U.S
	Nesbitt Canning Co. Ltd.	Brighton	U	Lake Ontario	None	U.S
	Sun-Joy Foods Ltd.	Bloomfield	U	Bloomfield Creek	Screened	U.S
	United Canners Ltd.	Picton	U	Bay of Quinte	Screened	U.S
Ceramics	Artistic Glass Co.	Cornwall	U.R	St. Lawrence	None	S
Chemicals	Brockville Chemicals	Augusta Twp.	U.R	St. Lawrence	Partial	U.S
	Canada Creosoting	Trenton	U.R	Trent River	Partial	S
	Canadian Industries Ltd.	Cornwall	U.R	St. Lawrence	Partial	U.S
	Chemical Developments of Cda Ramia Twp.		U.R	Lake St. John	Partial	U.S

SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficiency of Treatment
Chemicals (cont'd)	Cornwall Chemicals	Cornwall	U.R	St. Lawrence	None	U.S
	Dupont of Canada Ltd.	Kingston	U.R	St. Lawrence	Partial	U.S
	Dupont of Canada Ltd.	Maitland	U.R	St. Lawrence	Partial	U.S
	Howard and Sons Cda. Ltd.	Cornwall	U	St. Lawrence	None	U.S
	Troquois Ind'l Chemical	Cornwall	U.R	St. Lawrence	None	U.S
	Kemball Bishop (Canada)	Cornwall	U	St. Lawrence	None	U.S
	Nichols Chemical Co. Ltd.	Sulphide	U.R	Moira River	Partial	U.S
	Union Carbide Canada Ltd.	Belleville	U.R	Bay of Quinte	Partial	U.S
Virchem	Cornwall	U.R	St. Lawrence	None	U.S	U.S
Dairy	Cow and Gate	Gananoque	U.R	St. Lawrence	None	U.S
	Port Perry Dairy	Port Perry	U	Scugog River	None	U.S
	United Dairy and Poultry	Renfrew	U	Boncherre River	None	U.S
	Stuarts Dairy	Cobourg	U	Cobourg Creek	None	U.S
	Corby, H., Distillery Ltd.	Thurlow Twp.	U	Moira River	Partial	U.S
Distilling	Canadian Gen. Electric	Peterborough	U	Trent River	None	S
Electrical, Electronic	Phillips Electrical Co.	Brockville	U.R	St. Lawrence	None	U.S
	Renfrew Elec. and Refrig.	Renfrew	U	Boncherre River	None	S
Food Process	Canada Starch Co. Ltd.	Cardinal	U.R	St. Lawrence	None	S
	Drew Chemical Co. Ltd.	Ajax	U.R	Duffins Creek	None	U.S
	General Foods Ltd.	Cobourg	U.R	Lake Ontario	Screening	S
	Knox Gelatine of Cda. Ltd.	Murray Twp.	U.R	Bay of Quinte	None	U.S

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SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Food Process (cont'd)	Mead Johnson of Cda. Ltd.	Belleville	U.R	Moira River	None	S
	National Grocers Co. Ltd.	Eastview	U	Ottawa River	None	S
Ottawa Valley Farms Ltd.	Cornwall	U	St. Lawrence	None	S	S
Peebles Products Ltd.	Cornwall	U	St. Lawrence	None	U.S	S
P. Leiner and Sons Ltd.	Cobourg	U	Lake Ontario	None	U.S	U.S
Ontario Reformatory	Millbrook	U.R	Baxter Creek	Leaching Pit	U.S	U.S
Manufacturing	Compo Records (Ont.) Ltd.	Cornwall	U.R	St. Lawrence	None	S
	Courtaulds (Cda.) Ltd.	Cornwall	U.R	St. Lawrence	Partial	U.S
	Courtaulds T.C.F. of Cda.	Cornwall	U.R	St. Lawrence	Partial	U.S
Dominion Tape of Cda. Ltd.	Cornwall	U.R	St. Lawrence	None	S	S
Dustbane Mfg. Co. Ltd.	Ottawa	U	Rideau River	None	U.S	U.S
Renfrew Aircraft and Engrg.	Renfrew	U	Bonechere River	None	S	S
Siscoe Vermiculite Mines	Cornwall	U	St. Lawrence	None	S	S
Union Carbide Ltd.	Lindsay	U.R	Scugog River	Complete	S	S
Arrow Meat Packers Ltd.	Cornwall	U	St. Lawrence	None	S	S
Capital Meat Co. Ltd.	Eastview	U	Ottawa River	Hold-up Tank	U.S	U.S
Pickering Farms Ltd.	Whitby	U.R	Lynde Creek	Partial	U.S	U.S
St. Lawrence Rendering Co.	Cornwall	U.R	St. Lawrence	None	U.S	U.S
General Wire and Cable (George St.)	Cobourg	U.R	Lake Ont. storm sewer	Partial	S	S
General W. and C. (William Street)	"	U	Cobourg Creek	None	S	S

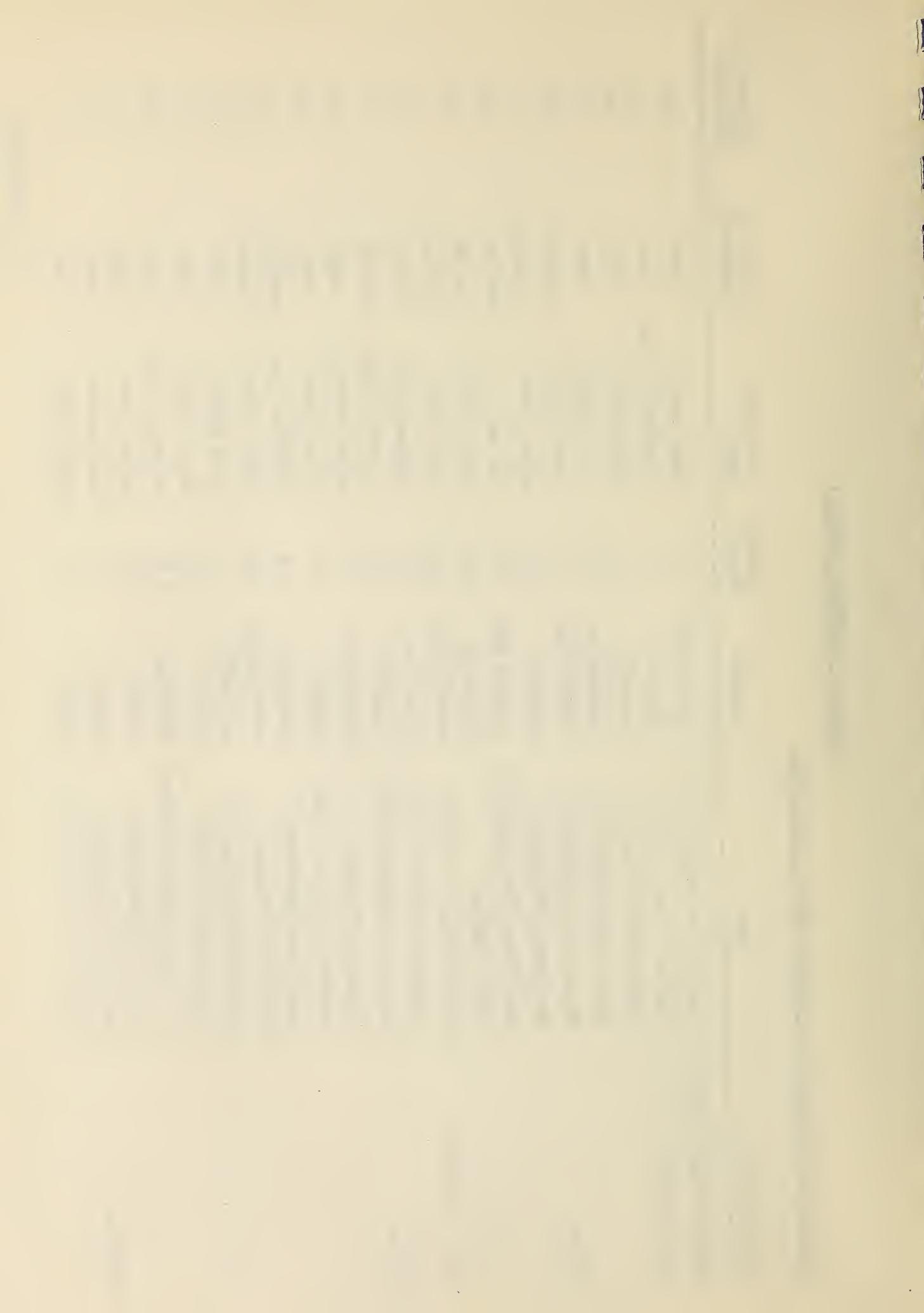
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SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Metalworking (cont'd)	Lake Ontario Steel Co.	Whitby Twp.	U	Lake Ontario	None	U.S
Metallurgical	Magline of Cda. Ltd.	Renfrew	U	Bonnechere River	None	S
	McKay Smelters Ltd.	Eastview	U	Ottawa River	None	U.S
	Smart, John, Plant Cda.	Brockville	U	St. Lawrence	None	S
Mining	Macassa Gold Mines Ltd.	Cardiff Twp.	U	Crowe River	Complete	U.S
	Marmoration Mining Co.	Marmora	U.R	Moira River	Complete	S
	Metal Mines Ltd.(Bancroft)	Faraday Twp.	U.R	Bow Lake	Partial	U.S
	Pitrun Limited	Pickering	U.R	Duffin Creek	Partial	U.S
Paper Convertors	Miller Bros. Co. (1962)	Glen Miller	U.R	Trent River	Partial	S
	Strathcona Paper Co. Ltd.	Strathcona	U.R	Napanee River	Partial	U.S
Plating	Beaverton Specialties Ltd.	Beaverton	U.R	Beaverton River	Partial	S
	Belleville Platers	Belleville	U	Bay of Quinte	None	U.S
	Computing Devices of Can.	Nepean	U	Ottawa River	None	U.S
	Lake Simcoe Industries	Beaverton	U.R	Beaverton River	Partial	U.S
	Merrickville Platting Co.	Merrickville	U.R	Rideau River	Complete	U.S
	Morch Manufacturing Ltd.	Belleville	U	Moira River	None	U.S
	Proctor-Silex Co. Ltd.	Fiction	U.R	Bay of Quinte	None	U.S
	St. Lawrence Wire and Steel	Gananoque	U.R	Gananoque River	None	U.S
	Schultz Die Casting Co.	Lindsay	U.R	Scugog River	None	U.S
Plastics	Cdn. General Electric	Cobourg	U	Lake Ontario	None	S
	Rosedale Plastics Int'l	Lindsay	U	Scugog River	None	S

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SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Surface Waters (continued)

Classification	Name	Location	Current Status	Receiving Water	Degree of Treatment	Efficacy of Treatment
Pulp and Paper	Campbellford Pulp Co. Ltd.	Campbellford	U	Trent River	None	S
	Cdn Int'l Paper Co. Ltd.	Hawkesbury	U.R	Ottawa River	Partial	U.S
	Domtar Newsprint Ltd.	Trenton	U.R	Trent River	Partial	U.S
	Domtar Pulp and Paper Ltd.	Cornwall	U.R	St. Lawrence	None	U.S
	Eddy, The E.B., Co.	Ottawa	U.R	Ottawa River	Partial	U.S
Rubber Service	Gair Co. of Canada	Frankford	U	Trent River	Partial	U.S
	Goodyear Tire and Rubber Canadian National Rlys.	Bowmanville	U	Bowmanville Creek	None	U.S
	Northern Electric Co.	Belleville	U	Moira River	None	S
Soft Drinks	Canada Dry Ltd.	Nepean Twp.	U.R	Ottawa River	None	U.S
	Millar's Bottling Works	Ottawa	U	Ottawa River	None	U.S
Tanning	Breithaupt Leather Co.	Admaston Twp.	U	Bonnechere River	None	U.S
	Davis, A., and Son, Ltd.	Campbellford	U.R	Trent River	Partial	U.S
	Robson-Lang Leathers Ltd.	Kingston	U.R	Catarraqui River	None	U.S
	Allied Weaving (Cda) Ltd.	Oshawa	U.R	Oshawa Creek	Partial	U.S
Textiles	C.I.L. (Textile Fibres Div)	Cornwall	U.R	St. Lawrence	None	U.S
	Collie Woollen Mills	Millhaven	U.R	Lake Ontario	None	U.S
	Lindsay Woollen Mills	Appleton	U.R	Mississippi Riv.	Complete	S
Woodworking	Trenton Dyeing and Finish.	Lindsay	U	Scugog River	None	U.S
	Victoria Custom Dyers	Trenton	U	Trent River	None	U.S
	Canada Veneers	Lindsay	U	Scugog River	None	U.S
	Pembroke	Pembroke	U	Ottawa River	None	S

SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Municipal Treatment Facilities

Classification	Total	Current Status			Treatment Facilities			Degree of Pretreatment			Efficacy of Pretreatment	
		U	U.R.	S	Prim.	Sec.	None	Partial	S	U.S.	% S	
Agricultural Chemicals	1	1	0	0	0	0	1	1	0	1	0	100 %
Automotive	1	1	0	0	1	0	0	1	0	0	1	0 %
Brewing	1	0	1	0	1	0	0	1	0	0	1	0 %
Chemical Specialties	2	1	1	0	1	1	2	0	1	1	1	50 %
Chemical	1	1	0	0	1	0	1	0	1	1	0	100 %
Electrical, Electronica	3	1	2	0	2	0	1	2	1	0	3	0 %
Food Process	3	3	0	0	3	0	0	2	1	2	1	66 %
Manufacturing	11	8	3	0	11	0	0	11	0	7	4	60 %
Metalworking	3	2	1	0	2	1	1	1	2	1	2	33 %
Metallurgical	1	1	0	0	1	0	0	1	0	0	1	0 %
Nuclear (Atomic)	1	1	0	0	0	1	0	1	0	1	0	100 %
Paint	1	1	0	0	1	0	0	1	0	0	1	0 %
Pharmaceutical	1	0	1	0	1	0	0	1	0	1	0	100 %
Plating	7	3	4	0	4	3	6	1	2	5	30 %	
Printing and Stationery	7	7	0	0	6	1	7	0	6	1	0	90 %
Service	1	1	0	0	1	0	1	0	1	0	1	100 %
Tanning	2	0	2	0	0	2	0	2	0	2	0	0 %
Textiles	5	4	1	0	3	2	4	1	2	3	2	40 %
TOTAL	52	36	16	0	39	13	43	9	26	26	26	50 %

SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Municipal Treatment Facilities

Classification	Name	Location	Current Status	Type of Mun. Treatment Facilities	Degree of Pretreatment	Efficacy of Pretreatm't
Agricultural Chemicals	Agricultural Chemicals Ltd.	Port Hope	U	Secondary	None	S
Automotive	Stewart-Warner Corp.	Belleville	U	Primary	None	U.S
Brewing	O'Keefe Brewing Co. Ltd.	Ottawa	U.R	Primary	None	U.S
Chemical Specialties	Port Hope Sanitary Mfg.	Port Hope	U.R	Secondary	None	S
	Thomas Supply and Equip.	Ottawa	U	Primary	None	U.S
Chemical	Dye and Chemical Co. Cda.	Kingston	U	Primary	None	S
Electrical, Electronic	Automatic Electric (Cda)	Brockville	U.R	Primary	None	U.S
	Erie Resistor of Cda Ltd.	Trenton	U	Primary	None	U.S
	Gulton Industries (Cda)	Gananoque	U.R	Secondary	Settling Basins	U.S
Food Process	Quaker Oats Co. Of Cda.	Trenton	U	Primary	Bar Screen	U.S
	Swift Canadian Co. Ltd.	Belleville	U	Primary	None	S
	Quaker Oats Co. Ltd.	Peterborough	U	Primary	None	S
Manufacturing	American Optical Co. (Cda)	Belleville	U.R	Primary	None	U.S
	Beach Foundry Ltd.	Ottawa	U	Primary	None	S
	Campbell Steel and Ironwks	Ottawa	U	Primary	None	S
	Canadian Locomotive Co.	Kingston	U	Primary	None	S
	Capital Wire Cloth Mfg. Co.	Ottawa	U	Primary	None	S
	Crawley Films Ltd.	Ottawa	U	Primary	None	S
	Fleck, The Alexander	Ottawa	U	Primary	None	S

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SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Municipal Treatment Facilities (cont'd)

Classification	Name	Location	Current Status	Type of Mun. Treatment Facilities	Degree of Pretreatment	Efficacy of Pretreatm't
Manufacturing (cont'd)	OMC Boats	Trenton	U.R	Primary	None	S
	Sperry Gyroscope (Ottawa)	Ottawa	U	Primary	None	U.S
	Stetson Co. (Canada) Ltd.	Brockville	U.R	Primary	None	U.S
	Sun Tube Corp. of Cda. Ltd.	Ottawa	U	Primary	None	U.S
Metalworking	Aluminum Co. of Cda. Ltd.	Kingston	U.R	Primary	Partial	S
	Morton and Parker Ltd.	Trenton	U	Primary	None	U.S
	Nicholson File Co. of Cda.	Port Hope	U	Secondary	Partial	U.S
	The Victoria Foundry Co.	Ottawa	U	Primary	None	U.S
Metallurgical	AMF Atomics Co. Ltd.	Port Hope	U	Secondary	Partial	S
Nuclear (Atomic)	O.P.W. Paints Ltd.	Ottawa	U	Primary	None	U.S
	Parke, Davis and Co. Ltd.	Brockville	U.R	Primary	None	S
	Comco Electroplating	Uxbridge	U.R	Primary	None	S
Paint	Curtis Products Ltd.	Cobourg	U	Secondary	None	U.S
Pharmaceutical	Int'l Hardware Co.	Belleville	U	Primary	Partial	U.S
Plating	Northern Electric Co. Ltd.	Belleville	U.R	Primary	None	S
	Thompson (Can) Rivet Co.	Gananoqu	U.R	Secondary	None	U.S
	Parmenter and Bulloch	Gananoque	U.R	Secondary	None	U.S
	Walker-Kurtz Co. Ltd.	Belleville	U	Primary	None	U.S

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SUMMARY OF DISTRICT NUMBER 4

Industries Discharging to Municipal Treatment Facilities (cont'd)

Classification	Name	Location	Current Status	Type of Mun. Treatment Facilities	Degree of Pretreatment	Efficacy of Pretreatm't
Printing and Stationery	British Amer. Bank Note Co.	Ottawa	U	Primary	None	S
Canadian Bank Note Co. Ltd.	Ottawa	U	Primary	None	None	S
Citizen Publishing Company	Ottawa	U	Primary	None	None	S
Crain, R.L., Limited	Ottawa	U	Primary	None	None	U.S
Journal, The, Publishing Co.	Ottawa	U	Primary	None	None	S
Le Droit Publishing Co. Ltd.	Ottawa	U	Primary	None	None	S
Maracle Press Limited	Oshawa	U	Secondary	None	None	S
Spartan Air Services	Ottawa	U	Primary	None	None	S
Arbo Leather Co. Ltd.	Port Hope	U.R	Secondary	Partial	Partial	U.S
Robson-Lang Leathers Ltd.	Cobourg	U.R	Secondary	None	None	S
Ajax Textile Processing Co.	Ajax	U	Secondary	Partial	Partial	U.S
Caldwell Linen Mills Ltd.	Iroquois	U.R	Primary	Partial	Partial	U.S
Lindsay Woolen Mills	Lindsay	U	Secondary	None	None	U.S
Trenton Dyeing and Finishing	Trenton	U	Primary	None	None	U.S
Vagden Mills	Belleville	U	Primary	None	None	S

SUMMARY OF DISTRICT NUMBER 4

Industries With Land Disposal Facilities

Classification	Name	Location	Current Status	Degree of Control	Efficacy of Control
Dairy	Orono Creamery	Orono	U	Minimum	U.S
Electrical, Electronics	Edo (Canada) Ltd.	Cornwall	U.R	Minimum	S
Plating	Avon Jewellery	Belleville	U.R	Minimum	U.S
	Whitby Electro-Plating	Whitby	U.R	Minimum	U.S
Mining	Eldorado Mining and Refin.	Port Hope	U	Minimum	U.S
Service	Ind'l Garbage and Disposal	Whitby East	U.R	Minimum	U.S
Smelting	Deloro Smelting and Refin.	Deloro	U.R	Minimum	S
Soft Drinks	Port Perry Beverages	Port Perry	U	Minimum	U.S
Textiles	Whitaker, G. and Co. Ltd.	Peterborough	U	Minimum	U.S
TOTALS			$\frac{U}{4}$	$\frac{U.R}{5}$	$\frac{S}{2}$ $\frac{U.S}{7}$

% Satisfactory = 20%

DISTRICT NUMBER 4

"Status Unknown" Industries

<u>Name</u>	<u>Classification</u>	<u>Location</u>
Baxter Canning Co.	Canning	Bloomfield
Canadian Arsenals	Metalworking	Lindsay
Canadian Canners	Canning	Frankford
Cooey Metal Products	Metalworking	Brighten
Kenwood Woolen Mills	Textiles	Arnprior
Kraft Food Limited	Food Process	Finch Twp.
Liquid Carbonic	Chemical	Maitland
New Mylamoque Explorations	Mining	Ernestown Twp.
St. Lawrence Ind'l Silica	Chemical	Pittsburgh Twp.
Trent Valley Sand and Stone	Building Products	Cramahe Twp.
Dunmaya Iron Mines	Mining	Mayo Twp.

TOTAL - 11

ONTARIO WATER RESOURCES COMMISSION
DIVISION OF INDUSTRIAL WASTES.
A REPORT ON THE STATUS OF
INDUSTRIAL WASTE CONTROL AND
DISPOSAL IN ONTARIO.

1964.

ARND

MOE/REP/ARND/RES	DATE	ISSUED TO
	12-10-65	J. G. Mc Lellon
	June 14/66	J. G. Mc Lellon 485-2407
	NOV 28 1975	Ken Flood Lim & Tex.

MOE/REP/ARND/RES
Ontario Water Resources Co
Report on the status
of industrial waste arnd

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